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26.03.2023

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EXAM.- S G P - 2002

DO NOT OPEN THE SEAL OF THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO.

Question Booklet Series Code:

A

Question Book Series No:

CPGLRE - 2022

Time Allowed: 02.00 hours

Total Questions: 150

Maximum marks: 150

There shall be negative marking @ 0.25 mark per question for wrong /multiple answers.

Before answering any question, check the Booklet and check that it contains 1-15 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES



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3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you are incomplete or different from what you have given in the application form, you shall be awarded Zero mark.

4. Answer must be given by completely blackening one of the four circles/ovals representing the most appropriate answer given on the Answer Sheet corresponding to the relevant question by using only Black/Blue ball point pen. For Answers not shown by properly darkening in black/blue ball point pen, no marks shall be awarded.

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36. How was the writer's grandmother?
 (a) She was beautiful
 (b) She was old and wrinkled
 (c) She was young and wrinkled
 (d) She was lovable
37. How did the writer describe his grandfather?
 (a) He put on (a) big turban
 (b) His clothes were loose
 (c) He had long, white beard
 (d) All of the above
38. What did his grandfather look like?
 (a) He had many children
 (b) He did not love his wife and children
 (c) He could have many grandchildren
 (d) He was an angry man
39. Which thought was revolting to the writer?
 (a) His grandfather could have a wife
 (b) His grandfather could have children
 (c) His grandmother being young and pretty
 (d) His grandmother had a husband
40. What seemed quite absurd to the writer?
 (a) His grandmother used to play games as a child
 (b) His grandmother was young and pretty.
 (c) His grandfather's portrait hung in the drawing room
 (d) His grandmother could tell fables of Prophets
41. If the sum of digits at odd and even places are equal or differ by a number divisible by 11, then the number is divisible by which of the following?
 (a) 9
 (b) 11
 (c) 12
 (d) 13
42. What is the greatest number that will divide 2400 and 1810 and leave remainders 6 and 4 respectively?
 (a) 39
 (b) 41
 (c) 42
 (d) 43
43. The L C M of two numbers is 2079 and their H C F is 27. If one of the numbers is 189, find the other.
 (a) 297
 (b) 281
 (c) 287
 (d) 296
44. In a school, 391 boys and 323 girls have been divided into the largest possible equal classes, so that each class of boys numbers the same as each class of girls. What is the number of classes?
 (a) 14
 (b) 17
 (c) 19
 (d) 21
45. Find the smallest fraction which when added to $\frac{2}{5} \times \frac{15}{21} \times \frac{7}{10} \times \frac{3}{8}$ gives a whole number.
 (a) $\frac{35}{42}$
 (b) $\frac{33}{40}$
 (c) $\frac{37}{40}$
 (d) $\frac{39}{40}$
46. What decimal of an hour is a second?
 (a) 0.00024
 (b) 0.00025
 (c) 0.00026
 (d) 0.00028
47. A and B enter into a Partnership with their capitals in the ratio 7:9. At the end of 8 months, A withdraws his capital. If they receive the profits in the ratio 8:9, find how long B's capital was used?
 (a) 5 months
 (b) 7 months
 (c) 8 months
 (d) 9 months
48. The expression $5^{2n} - 2^{3n}$ has a factor
 (a) 3
 (b) 7
 (c) 10
 (d) 17
49. A and B invested in the ratio 3:2 in a business. If 5% of the total profit goes to charity and A's share is Rs 855, find the total profit?
 (a) 1200
 (b) 1400
 (c) 1500
 (d) 1800
50. Two number s are respectively 20% and 50% more than the third. What percentage is the first of the second?
 (a) 60 %
 (b) 80%
 (c) 40%
 (d) 90%

Arithmetic

51. A certain number of tennis balls were purchased for Rs 450. Five more balls could have been purchased for the same amount if each ball was cheaper by Rs 15. Find the number of balls purchased.
 (a) 15
 (b) 20
 (c) 10
 (d) 25
52. In an election of two candidates, the candidate who gets 41% is defeated by a margin of 2412 votes. Find the total number of votes polled?
 (a) 14200
 (b) 13800
 (c) 12900
 (d) 13400
53. What is total of all the even numbers from 1 to 400?
 (a) 40100
 (b) 40200
 (c) 40300
 (d) 40400
54. Find the least number by which 19404 must be multiplied or divided so as to make it a perfect square?
 (a) 9
 (b) 11
 (c) 13
 (d) 15
55. The sum of the digits of a two-digit number is 8. If the digits are reversed, the number is decreased by 54. Find the number.
 (a) 69
 (b) 74
 (c) 71
 (d) 76
56. The ratio between a two-digit number and the sum of the digits of that number is 4:1. If the digit in unit's place is 3 more than the digit in the ten's place, what is the number?
 (a) 32
 (b) 36
 (c) 38
 (d) 42
57. How many numbers up to 200 are divisible by 4 and 3 together?
 (a) 12
 (b) 14
 (c) 16
 (d) 18
58. After deducting 10% from a certain Sum, and then 20% from the remainder, there is 3600 left. Find the original sum.
 (a) 4000
 (b) 3800
 (c) 5000
 (d) 5500
59. What is the largest natural number by which the product of three consecutive even natural number is always divisible?
 (a) 42
 (b) 48
 (c) 36
 (d) 46
60. A die is thrown. What is the probability that the number shown on the die is not divisible by 3?
 (a) $\frac{1}{3}$
 (b) $\frac{2}{3}$
 (c) $\frac{4}{9}$
 (d) $\frac{1}{4}$
61. Rs 425 is divided among 4 men, 5 women and 6 boys such that the share of a man, a woman and a boy may be in the ratio of 9:8:4. What is the share of a woman?
 (a) 31
 (b) 34
 (c) 36
 (d) 38
62. If a family of 7 persons can live on Rs 840 for 36 days, how long can (a) family of 9 persons live on Rs 810?
 (a) 25
 (b) 29
 (c) 27
 (d) 31
63. In a given period, 9 persons can make 108 toys. How many persons are needed to make 48 toys in the same period?
 (a) 4
 (b) 6
 (c) 8
 (d) 10
64. Find the difference between the compound interest and the simple interest for the sum Rs 1500 at 10% per annum for 2 years.
 (a) 20
 (b) 18
 (c) 15
 (d) 25

65. The students in three classes are in the ratio 2:3:5. If 20 students are increased in each class, the ratio changes to 4:5:7. What was the total number of students in the three classes before the increase?
- (a) 96
(b) 100
(c) 104
(d) 110

Data Interpretation

Q 66. Not Valued

Hence , not produced

67. What was the difference in the production of food grain between 1991 and 1994?
- (a) 10000 tons
(b) 15000 tons
(c) 500 tons
(d) 5000 tons
68. What was the percentage decline in production of food grain from 1991 to 1992?
- (a) 15
(b) 20
(c) 25
(d) 30
69. In how many of the given years was production of food grain more than the average production of the given years?
- (a) 2
(b) 3
(c) 4
(d) 1

Direction (For Q 70-72): Study the following table and answer the questions that follow.

Percentage population of six States below poverty line and the population of male and female

State	Percentage of population below poverty line	Proportion of male and female	
		Below poverty line	Above poverty line
A	12	3:2	4:3
B	15	5:7	3:4
C	25	4:5	2:3
D	26	1:2	5:6
E	10	6:5	3:2
F	32	2:3	4:5

Direction (67-69): Study the following graph and answer the questions given below it.



70. If the population of males below poverty line is in State B is 500 then what is the total population of that state?
- (a) 14400
(b) 6000
(c) 8000
(d) 7600
71. If the total population of C & D together is 18000, then what is the total number of females below poverty line in the above stated states?
- (a) 5000
(b) 5500
(c) 4800
(d) Data inadequate

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Accountant - 2022

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23.04.2023

S A R 2022

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ARITHMETIC

1. In covering a distance of 60 km, Tanu takes 3 hours more than Ritika. If Tanu doubles her speed, then she would take 2 hour less than Ritika. Then, Tanu's speed is:
 - a) 8 kmph
 - b) 6 kmph
 - c) 7.25 kmph
 - d) 8.5 kmph
2. Among the following series of numbers, find the odd number out:
37, 43, 47, 53, 61, 71, 73, 81
 - a) 37
 - b) 71
 - c) 73
 - d) 81
3. If $\log_{10} 5 + \log_{10} (5x + 1) = \log_{10} (x + 5) + 1$, then 'x' is equal to:
 - a) 1
 - b) 3
 - c) 5
 - d) 10
4. A dishonest milkman professes to sell his milk at cost price but he mixes it with water and thereby gains 25%. The percentage of water in the mixture is:
 - a) 14%
 - b) 20%
 - c) 25%
 - d) 50%
5. If $\left(\frac{a}{b}\right)^{x-1} = \left(\frac{b}{a}\right)^{x-3}$, then the value of x is:
 - a) 2
 - b) $\frac{2}{3}$
 - c) $\frac{7}{2}$
 - d) 1
6. How many two-digit numbers satisfy this property:
The last digit (unit's digit) of the square of the two-digit number is 2?
 - a) 11
 - b) 24
 - c) 34
 - d) None of these
7. A man has some hens and cows. If the number of heads be 50 and the number of feet equals 160, then the number of cows will be:
 - a) 22
 - b) 21
 - c) 20
 - d) 30
8. The rational number for recurring decimal 0.123123.... is:
 - a) $\frac{73}{367}$
 - b) $\frac{123}{1230}$
 - c) $\frac{123}{999}$
 - d) None of these
9. What is the unit digit in $(7^{97} - 3^{53})$?
 - a) 0
 - b) 4
 - c) 6
 - d) 7
10. 88 cubic centimetres of copper is drawn into a wire 1 mm in diameter. The length of the wire in metres will be:
 - a) 84
 - b) 90
 - c) 112
 - d) 336
11. The length of a rectangle is halved, while its breadth is tripled. What is the percentage change in area?
 - a) 25% increase
 - b) 50% increase
 - c) 66% decrease
 - d) 50% decrease
12. A library has an average of 260 visitors on Sundays and 140 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:
 - a) 180
 - b) 176
 - c) 160
 - d) 215
13. The angle between the minute hand and the hour hand of a clock when the time is 8.30, is:
 - a) 85°
 - b) 75°
 - c) 65°
 - d) 115°
14. The last day of a century cannot be
 - a) Monday
 - b) Wednesday
 - c) Thursday
 - d) Friday
15. A, B, C rent a grass lawn. A puts 10 Goats for 7 months, B puts 12 Goats for 5 months and C puts 15 Goats for 3 months for grazing. If the total rent of the pasture is Rs. 175, how much must C pay as his share of rent?
 - a) Rs. 45
 - b) Rs. 50
 - c) Rs. 55
 - d) Rs. 60
16. On selling 18 balls at Rs. 720, there is a loss equal to the cost price of 6 balls. The cost price of a ball is:
 - a) Rs. 55
 - b) Rs. 50
 - c) Rs. 65
 - d) Rs. 60
17. A bank offers 5% compound interest calculated on half-yearly basis. A customer deposits Rs. 1600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is:
 - a) Rs. 120

- b) Rs. 121
c) Rs. 122
d) Rs. 123
18. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 18 litres per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank is:
a) 460 litres
b) 700 litres
c) 620 litres
d) 720 litres
19. The angle of elevation of the sun, when the length of the shadow of a Tower is same as the height of the tower, is:
a) 30°
b) 45°
c) 60°
d) 90°
20. A batsman scored 144 runs which included 6 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?
a) 65%
b) 50%
c) 55%
d) 45%
21. The sum of three numbers is 147. If the ratio of the first to second is 2 : 3 and that of the second to the third is 5 : 8, then the second number is:
a) 45
b) 30
c) 48
d) 58
22. Prachi's father was 28 years of age when she was born while her mother was 26 years old when her brother four years younger to her was born. What is the difference between the ages of her parents?
a) 2 years
b) 4 years
c) 6 years
d) 8 years
23. The total number of digits used in numbering the pages of a Book having 536 pages is
a) 1500
b) 1800
c) 1611
d) 1378
24. Anand, Binod and Chandra start at the same time in the same direction to run around a circular stadium. Anand completes a round in 252 seconds, Binod in 308 seconds and Chandra in 198 seconds, all starting at the same point. After what time, will they all be again at the starting point together for the first time?
a) 26 minutes and 18 seconds
b) 42 minutes and 36 seconds
c) 45 minutes
d) 46 minutes and 12 seconds
25. Uma says, "If you reverse my age, the figures represent my husband's age. He is, of course, senior to me and the difference between our ages is one-eleventh of the sum of our ages." Then Uma's age is
a) 43 years
b) 34 years
c) 45 years
d) None of these
26. In a 400 m race, the ratio of the speed of two contestants A and B is 3 : 4. A has a start of 160 m. Then, A wins by:
a) 60 m
b) 40 m
c) 20 m
d) 80 m
27. In one hour, a boat goes 13 km/hr along the stream and 7 km/hr against the stream. The speed of the boat in still water (in km/hr) is:
a) 10 km/hr
b) 5 km/hr
c) 11 km/hr
d) 9 km/hr
28. A 230 metres long train running at the speed of 110 kmph crosses another train running in opposite direction at the speed of 70 kmph in 10 seconds. What is the length of the other train?
a) 220 m
b) 240 m
c) 270 m
d) 320 m
29. Amit and Sumit can do a piece of work in 20 days and 12 days respectively. Amit started the work alone and then after 4 days Sumit joined him till the completion of the work. How long did the work last?
a) 6 days
b) 10 days
c) 15 days
d) 20 days
30. The Sum of all Even numbers from 1 to 100 is :
a) 2550
b) 5100
c) 2500
d) None of these
31. The cost price of 30 toys is the same as the selling price of x toys. If the profit is 50%, then the value of x is:
a) 20
b) 30
c) 15
d) 25
32. Which of the following numbers will completely divide $(49^{15} - 1)$?
a) 8
b) 14
c) 46
d) 50

33. The least number of complete years in which a sum of money put out at 20% compound interest will be more than tripled is:
- 3
 - 4
 - 7
 - 6
34. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 9g/cm³, then the weight of the pipe is:
- 41.58 kg
 - 4.158 kg
 - 41.58 g
 - 415.8 g
35. If $2\sqrt{5} + \sqrt{180} = 17.88$, then what will be the value of $\sqrt{45} + 7\sqrt{5}$?
- 14.41
 - 23.46
 - 21.66
 - 22.35

LOGICAL REASONING

36. If in a Code Language, word 'LATE' is written as 38, then in the same language, word 'MAKE' would be written as :
- 25
 - 26
 - 27
 - 30
37. If A = 1 and AND = 19, Then BAT = ?
- 22
 - 23
 - 21
 - 20
38. In the following question, what will come in the place of (?)
- RAMO: SCPS :: VXMJ : ?
- WPZN
 - WQZN
 - WQPN
 - WZPN
39. In the following series, which number will come in place of the question mark (?) from the given options
- 16 23 31 40 50 61 ?
- 73
 - 77
 - 83
 - 81
40. With the help of options given below, find the suitable number which will come in place of the question mark
- FED X 3 = 1629
BCD X 4 = 492
BEF X 1 = ?
- 451
 - 145
 - 514
 - 415
41. If a month of a specific year ends on Friday, then how many Tuesdays will be there in that Month?

- 4
- 5
- 3
- 6

42. If Addition is said to be **A**, division to be **B**, Subtraction to be **C** and Multiplication to be **D**, then, what will be the value of the following equation:
- 18 D 2 C 20 A 2 A 18 B 9 = ?
- 16
 - 20
 - 13
 - 15
43. 'X' walks towards south and then turns right, then left and then right. In which direction is he walking now?
- South
 - North
 - West
 - South-West
44. Anil, Raju and Ravi are standing on the corners of an Equilateral triangle in an open ground. Raju walks 3 km to reach Anil. How much will Anil have to walk to reach Ravi and come back to his starting point.
- 3 km
 - 4 km
 - 5 km
 - 6 km
45. B is mother of D and C is brother of D. H is daughter of E, whereas, D is wife of E. Then, what is the relation of E with C?
- Father- in -law
 - Brother - in - law
 - Uncle
 - Brother
46. In a specific Code, 'A+B' means A is brother of B; 'A- B' means A is mother of B; 'A X B' means A is father of B; which of the following depicts that
- P is uncle of Q
- P + Q + K
 - P X K + Q
 - P + K X Q
 - None of these
47. From the below given options, find the word which can be formed by using the letters of the given word :-
- RATIONALISATION
- NATIONALIST
 - NATIONALISTIC
 - REALISATION
 - SITUATION
48. Which of the following letter's group is an odd one
- BJN
 - FPT
 - LQU
 - JTV
49. From the following, find the number different from others:
- 345

3

CGE - 2022 · 14.05.2023

ANZ 2022

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130005

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2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
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(Turn over)

ND - 1A/16

28. If NHAI could receive a total of Rs. 9695 crores as External Assistance, by what percent (approximately) should it increase the Market Borrowing to arrange for the shortage of funds ?

- (a) 4.5%
- (b) 7.5%
- (c) 6%
- (d) 8%

29. The central angle corresponding to Market Borrowing is :

- (a) 52°
- (b) 137.8°
- (c) 187.2°
- (d) 192.4°

30. The approximate ratio of the funds to be arranged through Toll and that through Market Borrowing is (approximately) :

- (a) 2 : 9
- (b) 1 : 6
- (c) 3 : 11
- (d) 2 : 5

Arithmetic

31. Evaluate: $[(18 - 6) + 4] + [72 - 12 + 3 \text{ of } 2]$

- (a) 768
- (b) 572
- (c) 275
- (d) 752

32. Total number of divisors of 10500 except 1 and itself is :

- (a) 48
- (b) 46
- (c) 42
- (d) None of these

What is the least possible number, which when divided by 2, 3, 4, 5, 6, leaves the remainders 1, 2, 3, 4, 5, respectively ?

- (a) 60
- (b) 61
- (c) 59
- (d) 69

34. The fraction equivalent of the recurring decimal 5.8737373..... is :

- (a) $5\frac{173}{900}$
- (b) $5\frac{873}{900}$

(c) $5\frac{173}{198}$

(d) None of these

35. Which one is highest among the following

fractions $\frac{1}{2}, \frac{2}{3}, \frac{2}{5}, \frac{4}{7}$?

- (a) $\frac{1}{2}$
- (b) $\frac{2}{5}$
- (c) $\frac{2}{3}$
- (d) $\frac{4}{7}$

36. In the below given expression, what is the value of '?'

$$(17)^{3.5} \times (17)^? = (17)^8$$

- (a) 2.29
- (b) 2.75
- (c) 4.25
- (d) 4.5

37. Number of zeros at the end of the expression $10+100+1000+\dots+10000000000$ is :

- (a) 1
- (b) 10
- (c) 55
- (d) None of these

Find the unit digit of the expression $77 \times 88 + 66 \times 55$:

- (a) 7
- (b) 6
- (c) 5
- (d) 0

39. $\frac{888 \times 888 \times 888 - 222 \times 222 \times 222}{888 \times 888 + 888 \times 222 + 222 \times 222} = ?$

- (a) 1110
- (b) 666
- (c) 4
- (d) 16

40. Find the remainder when $(1719 \times 1721 \times 1723 \times 1725 \times 1727)$ is divided by 18 :

- (a) 17
- (b) 27
- (c) 9
- (d) 15

41. The average age of Sumit's family consisting of 5 members, 3 years ago, was 35 years. One year ago, a new baby was born in the family. Three years hence, the average age of the family will be :
- (a) 36 years
 (b) $34\frac{5}{6}$ years
 (c) $35\frac{4}{3}$ years
 (d) None of these
42. A milkman has 20 litres of milk. He mixes 5 litres of water, which is freely available, in 20 litres of pure milk. If the cost of pure milk is Rs 18 per litre, then the profit of the milkman, when he sells all the mixture at cost price is :
- (a) 20%
 (b) 25%
 (c) 5%
 (d) 33.33%
43. The incomes of A, B, C are in the ratio 12 : 9 : 7 and their spending are in the ratio 15 : 9 : 8. If A saves 25% of his income, then, what is the ratio of savings of A, B and C ?
- (a) 11 : 13 : 18
 (b) 15 : 18 : 11
 (c) 16 : 17 : 21
 (d) 13 : 16 : 11
44. Due to fall in manpower, the production in a factory decreases by 60%. By what percent should the working hours be increased, to restore the original production in the factory ?
- (a) 40%
 (b) 66.66%
 (c) 150%
 (d) 120%
45. A man sells two wrist watches, one at a profit of 10% and the other at a loss of 10%. But the selling price of each watch is Rs 200. What is the percentage of profit or loss ?
- (a) 1% profit
 (b) 1% loss
 (c) 2% profit
 (d) 2% loss
46. Compound and Simple interest on a certain sum, at certain rate of interest, after two years is 220 and 200 respectively. What is the Principal sum ?
- (a) Rs 2,200
 (b) Rs 2,000
 (c) Rs 500
 (d) Rs 1,000
47. A is twice as good a workman as B, and therefore, able to finish a piece of work in 30 days less than B. In how many days, they can complete the whole work, working together ?
- (a) 30 days
 (b) 15 days
 (c) 20 days
 (d) 40 days
48. The distance between office and home of Uma is 80km. One day she was late by 1 hour than the normal time to leave for the office, so, she increased her speed by 4km/hr. Thus she reached to office at the normal time. What is the changed speed of Uma ?
- (a) 20km/hr
 (b) 16km/hr
 (c) 40km/hr
 (d) 10km/hr
49. Between 2'O clock and 3'O clock, at what time, the two hands of a clock coincide ?
- (a) 2 : 10 : 36
 (b) 2 : 10 : 45
 (c) 2 : 10 : 54
 (d) 2 : 10 : 56
50. Find the cost of carpeting a room, 17m long and 9 m wide, with a carpet 60cm broad at 40 paisa per metre of length.
- (a) Rs 110
 (b) Rs 102
 (c) Rs 100
 (d) Rs 112
51. If the sum of the first 14 terms of an AP is 1050 and its first term is 10, then, find the 20th term from the following ?
- (a) 170
 (b) 180
 (c) 190
 (d) 200

52. Two dice are thrown. What is the probability that the sum of numbers on the dice is a prime number ?

- (a) $1/6$
- (b) $1/2$
- (c) $1/3$
- (d) $5/12$

53. A truck driver, once in a week, leaves his house and drives to the river dock to pick up supplies. At 6:05 PM, one-fifth of the way to the dock, he passes the Temple. At 6:15 PM, one-third of the way, he passes the Dhaba. At what time does he reach the dock ?

- (a) 6:50 PM
- (b) 6:55 PM
- (c) 7:00 PM
- (d) 7:05 PM

54. Sami decided to give Kachoris to her friends on her Birthday. If she gives 3 Kachoris to each friend, one friend will get only 1 Kachori. Also, if she gives 2 Kachoris to each friend, she will be left with 13 Kachoris. How many friends are there ?

- (a) 12
- (b) 15
- (c) 17
- (d) 16

55. The calendar for the year 2007 will be the same for the year :-

- (a) 2014
- (b) 2016
- (c) 2017
- (d) 2018

56. In Roman Number System, there are seven symbols which are used to represent the whole number system. The symbols and their respective values are given below. I=1, V=5, X=10, L=50, C=100, D=500, M=1000 ; Then, the value of the numeral MCDLXIV is :

- (a) 1666
- (b) 664
- (c) 1464
- (d) 656

57. $(11^2 + 12^2 + 13^2 + \dots + 20^2) = ?$

- (a) 2575
- (b) 2485

- (c) 2395
- (d) 2295

The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs. 4000. The total price of 12 chairs and 3 tables is :

- (a) Rs. 3,500
- (b) Rs. 3,750
- (c) Rs. 3,840
- (d) Rs. 3,900

59. When Rahul was born, his father was 32 years older than his brother and his mother was 25 years older than his sister. If Rahul's brother is 6 years older than him and his mother is 3 years younger than his father, how old was Rahul's sister when he was born ?

- (a) 7 years
- (b) 10 years
- (c) 14 years
- (d) 19 years

60. A bird shooter was asked how many birds he had in the bag. He replied that there were all sparrows but six, all pigeons but six, and all ducks but six. How many birds he had in the bag in all ?

- (a) 9
- (b) 18
- (c) 27
- (d) 36

61. In a family, each daughter has the same number of brothers as she has sisters and each son has twice as many sisters as he has brothers. How many sons are there in the family ?

- (a) 2
- (b) 3
- (c) 4
- (d) 5

62. An error 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is :

- (a) 2%
- (b) 2.02%
- (c) 4%
- (d) 4.04%

63. Two pipes A and B can fill a cistern in $37\frac{1}{2}$ minutes and 45 minutes respectively.

Both pipes are opened. The cistern will be filled in just half an hour, if pipe B is turned off after :

- (a) 5 min.
- (b) 9 min.
- (c) 10 min.
- (d) 15 min.

64. A and B entered into partnership with capitals in the ratio 4 : 5. After 3 months, A withdrew $\frac{1}{4}$ th of his capital and B

withdrew $\frac{1}{5}$ th of his capital. The gain at the end of 10 months was Rs. 760. A's share in this profit is :

- (a) Rs. 330
- (b) Rs. 360
- (c) Rs. 380
- (d) Rs. 430

65. Two trains, one from Howrah to Patna and the other from Patna to Howrah, start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is :

- (a) 2 : 3
- (b) 4 : 3
- (c) 6 : 7
- (d) 9 : 16

66. The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is :

- (a) 6.06%
- (b) 6.07%
- (c) 6.08%
- (d) 6.09%

67. The population of a town in the first year increases by 10%, in the next year it decreases by 10%. Once again in the third year it increases by 10% and in the fourth year it decreases by 10%. If the present population be 20000, then the population after four years will be :

- (a) 16902
- (b) 19602
- (c) 20692
- (d) None of these

68. Three unbiased coins are tossed. What is the probability of getting at most two heads ?

- (a) $\frac{3}{4}$
- (b) $\frac{1}{4}$
- (c) $\frac{3}{8}$
- (d) $\frac{7}{8}$

69. In 100 m race, A covers the distance in 36 seconds, B in 45 seconds and C in 48 seconds. If same speed is maintained in a race of 1600m, B will beat C in the said race of 1600m by :

- (a) 80 m
- (b) 75 m
- (c) 100 m
- (d) 85 m

70. A sum of Rs. 10000 is borrowed at 8% per annum compounded annually, which is paid back in three equal annual instalments. What is the amount of each instalment ?

- (a) Rs. 4199.04
- (b) Rs. 3880.34
- (c) Rs. 3905.06
- (d) Rs. 4180.35

71. A trader mixes 26 kg of rice at Rs. 20 per kg with 30 kg of rice of other variety at Rs. 36 per kg and sells the mixture at Rs. 30 per kg. His profit percent is :

- (a) No profit, no loss
- (b) 5%
- (c) 8%
- (d) 10%

72. A man takes twice as long to row a distance against the stream as to row the same distance in the direction of the stream. The ratio of the speed of the boat (in still water) and the stream is :

- (a) 2 : 1
- (b) 3 : 1
- (c) 3 : 2
- (d) 4 : 3

73. A scooter has 2 tyres and one Stepney (i.e. a total of 3 tyres). Each tyre can run up to a maximum of 5 km. What is the longest

distance, which can be covered by the scooter ?

- (a) 5 km
- (b) 7.5 km
- (c) 10 km
- (d) None of these

74. 150 workers were engaged to finish a piece of work in a certain number of days. Four workers dropped on the second day, four more workers dropped on the third day and so on. It takes 8 more days to finish the work now. Find the number of days in which the work was completed.

- (a) 20 days
- (b) 23 days
- (c) 25 days
- (d) None of these

75. Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be :

- (a) Rs. 169.50
- (b) Rs. 170
- (c) Rs. 175.50
- (d) Rs. 180

Logical Reasoning

(Q76-78) In each of the following questions, there are four groups of letters. Three of these are alike in some way while one is different. Find the one which is different.

76. (a) EDCBA
(b) ONMLK
(c) JIHGF
 (d) XWVUY

77. (a) AEDCB
(b) GKJIH
(c) MQPON
 (d) PRSTQ

78. (a) KLLM
 (b) TUUW
(c) XYYZ
(d) OPPQ

(Q79-81) A sales representative plans to visit each of six companies M, N, P, Q, R and S exactly once during the course of one day. She is setting up her schedule for the day according to the following conditions.

- (I) She must visit M before N and before R.
- (II) She must visit N before Q.
- (III) The third company she visits must be 'P'.

79. Which of the following could be the order in which sales representative visits the six companies ?

- (a) M, R, N, Q, P, S
- (b) M, S, P, N, R, Q
- (c) P, R, M, N, Q, S
- (d) P, S, M, R, Q, N

80. Which of the following could be true of the sales representative's schedule ?

- (a) She visits M third
- (b) She visits R sixth
- (c) She visits P first
- (d) She visits Q second

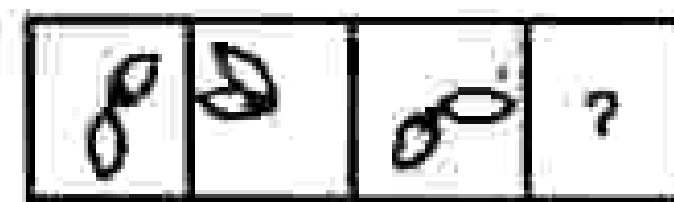
81. If the sales representative visits 'S' first, which company must she visit second ?

- (a) M
- (b) N
- (c) P
- (d) Q

(Q82-84) Select a suitable figure from the Answer Figures that would replace the question mark (?).

82.

Problem Figures :



(A) (B) (C) (D)

Answer Figures :



(1) (2) (3) (4)

(a) 1

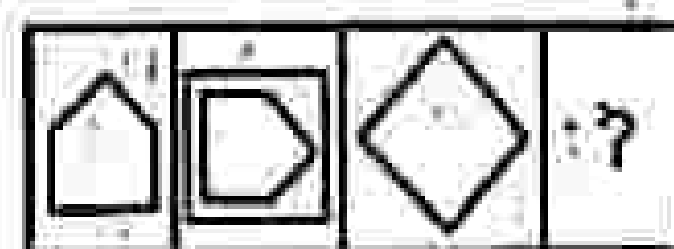
(b) 2

(c) 3

(d) 4

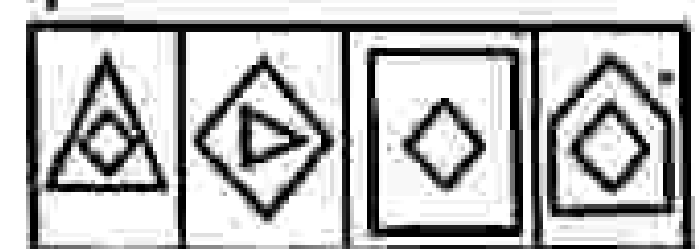
83.

Problem Figures :



(A) (B) (C) (D)

Answer Figures :



(1) (2) (3) (4)

(a) 1

(b) 2

(c) 3

(d) 4

Script: ENGLISH

SAO 2022

DO NOT OPEN THE SEAL OF THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO.

Question Booklet Series Code :

D

Question Booklet Series No :

4872

Time Allowed : 120 minutes

Total Questions : 150

Maximum marks : 150

There shall be negative marking @ 0.25 mark per question for wrong / multiple answers.

Before answering any question, check the Booklet that it contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

For complete solution join before exam youtube channel

1. Fill in the OMR answer sheet, mentioning the Roll No. and other data as required, in the place(s) indicated therein, darken the appropriate circles in the or black ball point pen points of the OMR answer sheet. Any tick mark is liable to render the answer sheet unfit for evaluation.
2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be **expelled from the examination without any enquiry** as to whether the same was / were used by the candidate or not.
3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you are incomplete or different from what you have given in the application form, **you shall be awarded Zero mark**.
4. Answer must be given by completely darkening one of the four circles / ovals representing the most appropriate answer given on the Answer Sheet corresponding to the relevant question. For Answers not shown by properly darkening in **black / blue ball point pen**, no marks shall be awarded.
5. **No Rough work should be done on the OMR Answer Sheet**, Space for rough work has been provided in the Question Booklet itself.
6. After the examination is over, candidates must ensure to fold the OMR Answer Sheet at the perforation and separate the Original Copy and Candidate's Copy of the Two Part OMR Answer Sheet in the presence of the Invigilator and handover the Original Copy to the Invigilator. The Candidate's Copy of the OMR Answer sheet may be taken by the candidate. **Failure to hand over the original copy of the OMR Answer Sheet to the Invigilator before leaving the examination hall / room shall make the candidate liable for penal action.**
7. Candidates may take with them the respective question-booklet after the examination is over.
8. Failure to comply with or violation of any of the above instructions shall be considered as adopting unfair means and action as deemed proper shall be taken.

88. What is the difference between number of males from village A who have voted and females from village D who have voted ?

- (a) 6020
- (b) 4200
- (c) 6300
- (d) 6915

89. If ratio of male to female who do not vote is 5:3 from village C then what is the ratio of total male voters and total female voters from village C ?

- (a) 113 : 87
- (b) 96 : 53
- (c) 83 : 43
- (d) 104 : 101

90. What is the average number of voters who have not voted from village A, C and D together ?

- (a) $1526\frac{1}{3}$
- (b) $1820\frac{2}{3}$
- (c) $2316\frac{2}{3}$
- (d) $1015\frac{3}{5}$

Arithmetic

91. What least number must be added to 1056, so that the sum is completely divisible by 23 ?

- (a) 2
- (b) 3
- (c) 18
- (d) 21

92. The difference between simple interest and compound interest on ₹ 1200 for one year at 10% per annum reckoned half-yearly is :

- (a) ₹ 2.50
- (b) ₹ 3
- (c) ₹ 3.75
- (d) ₹ 4

93. 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work, to empty the tank in 1 day ?

- (a) 9

- (b) 10
- (c) 11
- (d) 12

94. A and B started a business in partnership investing ₹ 20,000 and ₹ 15,000 respectively. After six months, C joined them with ₹ 20,000. What will be B's share in total profit of ₹ 25,000 earned at the end of 2 years from the starting of the business ?

- (a) ₹ 7500
- (b) ₹ 9000
- (c) ₹ 9500
- (d) ₹ 10,000

95. A certain number of horses and an equal number of men are going somewhere. Half of the owners are on their horses' back while the remaining ones are walking along leading their horses. If the number of legs walking on the ground is 70, how many horses are there ?

- (a) 10
- (b) 12
- (c) 14
- (d) 16

96. Abdul buys an old scooter for ₹ 4700 and spends ₹ 800 on its repairs. If he sells the scooter for ₹ 6600, his gain percent is :

- (a) 10%
- (b) 12%
- (c) 18%
- (d) 20%

97. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is :

- (a) 50 km
- (b) 56 km
- (c) 70 km
- (d) 80 km

98. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person ?

- (a) 76 kg
- (b) 76.5 kg
- (c) 85 kg
- (d) Data inadequate

99. Today is Varun's birthday. One year, from today, he will be twice as old as he was 12 years ago. How old is Varun today ?

- (a) 20 years
- (b) 22 years
- (c) 25 years
- (d) 27 years

100. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is :

- (a) 101
- (b) 107
- (c) 111
- (d) 185

101. Two stations A and B are 110 km apart on a straight line. One train starts from A at 7 a.m. and travels towards B at 20 kmph. Another train starts from B at 8 a.m. and travels towards A at a speed of 25 kmph. At what time will they meet ?

- (a) 9 a.m.
- (b) 10 a.m.
- (c) 10:30 a.m.
- (d) 11 a.m.

102. What is the four-digit number in which the first digit from left is $\frac{1}{4}$ of the second, the third is the sum of the first and second, and the last is two times the second ?

- (a) 1854
- (b) 1458
- (c) 1548
- (d) 8541

103. $\{(476 + 424)^2 - 4 \times 476 \times 424\} = ?$

- (a) 2906
- (b) 3116
- (c) 2704
- (d) 2904

104. A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained in the container ?

- (a) 26.34 litres
- (b) 27.36 litres
- (c) 28 litres
- (d) 29.16 litres

105. Three friends had dinner at a restaurant. When the bill was received, Amita paid $\frac{2}{3}$ as much as Veena paid and Veena paid $\frac{1}{2}$ as much as Tanya paid. What fraction of the bill did Veena pay ?

- (a) $\frac{1}{3}$
- (b) $\frac{3}{11}$
- (c) $\frac{12}{13}$
- (d) $\frac{5}{8}$

106. On 8th Feb, 2005 it was Tuesday. What was the day of the week on 8th Feb, 2004 ?

- (a) Tuesday
- (b) Monday
- (c) Sunday
- (d) Wednesday

107. On a certain island, 5% of the 2000 inhabitants are one legged and half of the others go barefoot. What is the least number of shoes needed in the island, if one pair is counted as two shoes ?

- (a) 1900
- (b) 4000
- (c) 2000
- (d) 2100

108. A yellow light flashes 4 times per minute and a green light flashes 6 times in two minutes at regular intervals. If both lights start flashing at the same time, how many times do they flash together in each hour ?

- (a) 50
- (b) 60
- (c) 40
- (d) 30

109. Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is:

- (a) 16 hours
- (b) 18 hours
- (c) 20 hours
- (d) 24 hours

110. A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether ?

- (a) 106
- (b) 104
- (c) 108
- (d) 105

111. A driver knows four different routes from Bhubaneswar to Brahmapur. From Brahmapur to Koraput he knows three different routes ; and from Koraput to Malkangiri, he knows two different routes. How many routes does he know from Bhubaneswar to Malkangiri ?

- (a) 4
- (b) 8
- (c) 12
- (d) 24

112. In a regular week, there are 5 working days and for each day, the working hours are 8 hr. A man gets ₹ 2.40 per hour for regular work and ₹ 3.20 per hour for overtime. If he earns ₹ 432 in 4 weeks, then how many hours does he worked for ?

- (a) 160
- (b) 175
- (c) 180
- (d) 195

113. Two people enter a race in which one runs to a point and comes back to the starting line. Anil runs at a speed of 20 mph to and from the point. Sunil runs to the point going at 10 mph and comes back from the point at 30 mph. Then, who won the race ?

- (a) Anil
- (b) Sunil
- (c) Both reach at the same time
- (d) None of these

114. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through :

- (a) 145°
- (b) 150°
- (c) 155°
- (d) 160°

115. Which one of the following can't be the square of a natural number ?

- (a) 32761
- (b) 81225

- (c) 42437
- (d) 20164

116. In a city, 40% of the adults are illiterate while 85% of the children are literate. If the ratio of the adults to that of the children is 2 : 3, then what percent of the population is literate ?

- (a) 20%
- (b) 25%
- (c) 50%
- (d) 75%

117. A car owner buys petrol at ₹ 7.50, ₹ 8 and ₹ 8.50 per litre for three successive years. What approximately is the average cost per litre of petrol if he spends ₹ 4000 each year ?

- (a) ₹ 7.98
- (b) ₹ 8
- (c) ₹ 8.50
- (d) ₹ 9

118. The percentage profit earned by selling an article for ₹ 1920 is equal to the percentage loss incurred by selling the same article for ₹ 1280. At what price should the article be sold to make 25% profit ?

- (a) ₹ 2000
- (b) ₹ 2200
- (c) ₹ 2400
- (d) Data inadequate

119. A fort had provision of food for 150 men for 45 days. After 10 days, 25 men left the fort. The number of further days for which the remaining food will last, is :

- (a) 29
- (b) 37
- (c) 42
- (d) 54

120. In an entrance exam, a student has to attempt 250 questions in 4 hours. Out of these 250 questions, 50 questions are on Quantitative Ability (QA). How many minutes should be spent on QA section if his mentor has suggested him that he must spend twice as much time on each QA problem as spent for every other question?

- (a) 100
- (b) 80
- (c) 75
- (d) 90

121. Golu was obese, and hence he decided to stick to a diet regime. On Monday, he ate half Paratha. He ate half of what was left on Tuesday and so on. He followed this pattern for one week. If, one Paratha amounts to 100 calories, then what is the calorie intake of Golu during the week (7 days) ?

- (a) 99.22
- (b) 98.72
- (c) 97.66
- (d) 96.88

122. A Yogi was born in 1840 B.C. He had lived one-third of his life as a boy, one-fifth of his life as a youth, one-fourth of his life as a man and the remaining 39 years as an old man. Which B.C. year did he die ?

- (a) 1660
- (b) 2020
- (c) 1680
- (d) 2000

123. The ratio of Employees to Managers in an organisation is 7: 3. 70% of the Employees and 30% of the Managers take lunch in the canteen. What % of total workforce takes lunch in canteen?

- (a) 63%
- (b) 53%
- (c) 58%
- (d) Cannot be determined

124. A farmer has three children and 44 gold coins. He decides to give coins to his three children in the following ratio :

$\frac{1}{3} : \frac{1}{6} : \frac{1}{9}$. The one who got highest number of coins, got how many coins ?

- (a) 20
- (b) 27
- (c) 24
- (d) 18

125. If 20 boys and 20 girls eat 20 apples in 20 minutes, in how many minutes will one boy and one girl eat one apple ?

- (a) 2 minutes
- (b) 1 minute
- (c) 20 minutes
- (d) Cannot be determined

Logical Reasoning

126. If in a code language 'RIPPLE' is written as 'FACCHB' and 'LIFE' is written as 'HAIB', then in the same code, 'PILLER' would be written as :

- (a) CAHHBF
- (b) CAHBHF
- (c) FAHHBF
- (d) CAHGBF

127. A clock gains 5 minutes every hour. How much angle will the second hand cover in one minute ?

- (a) 360°
- (b) 360.5°
- (c) 390°
- (d) 380°

28. In the following number series, only one term is wrong. Find the wrong term.

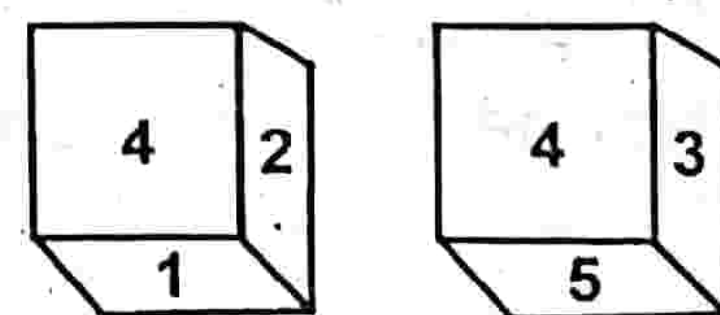
3 4 7 11 20 29 47 76

- (a) 3
- (b) 11
- (c) 20
- (d) 47

129. In a year, which other month starts on the same day, on which March-month starts ?

- (a) July
- (b) November
- (c) December
- (d) October

130. Shown below are two positions of a dice -



If '3' is on the bottom face, then which number will be on the top face ?

- (a) 4
- (b) 5
- (c) 2
- (d) 1

131. A cube of 16 cm edge, is divided into 64 small cubes of equal volume, what will be the measure of edge of each small cube ?

- (a) 1 cm.
- (b) 2 cm.
- (c) 4 cm.
- (d) 8 cm.

5

CTS -2022 04.06.2023

45

SCRIPT : ENGLISH

D M F 2022

DO NOT OPEN THE SEAL OF THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO.

Question Booklet Series Code : **A**

Question Booklet Series No : **20777**

Time Allowed : 150 minutes Total Questions : 150 Maximum marks : 150

There shall be negative marking @ 0.25 mark per question for wrong / multiple answers.

Before answering any question, check the Booklet that it contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

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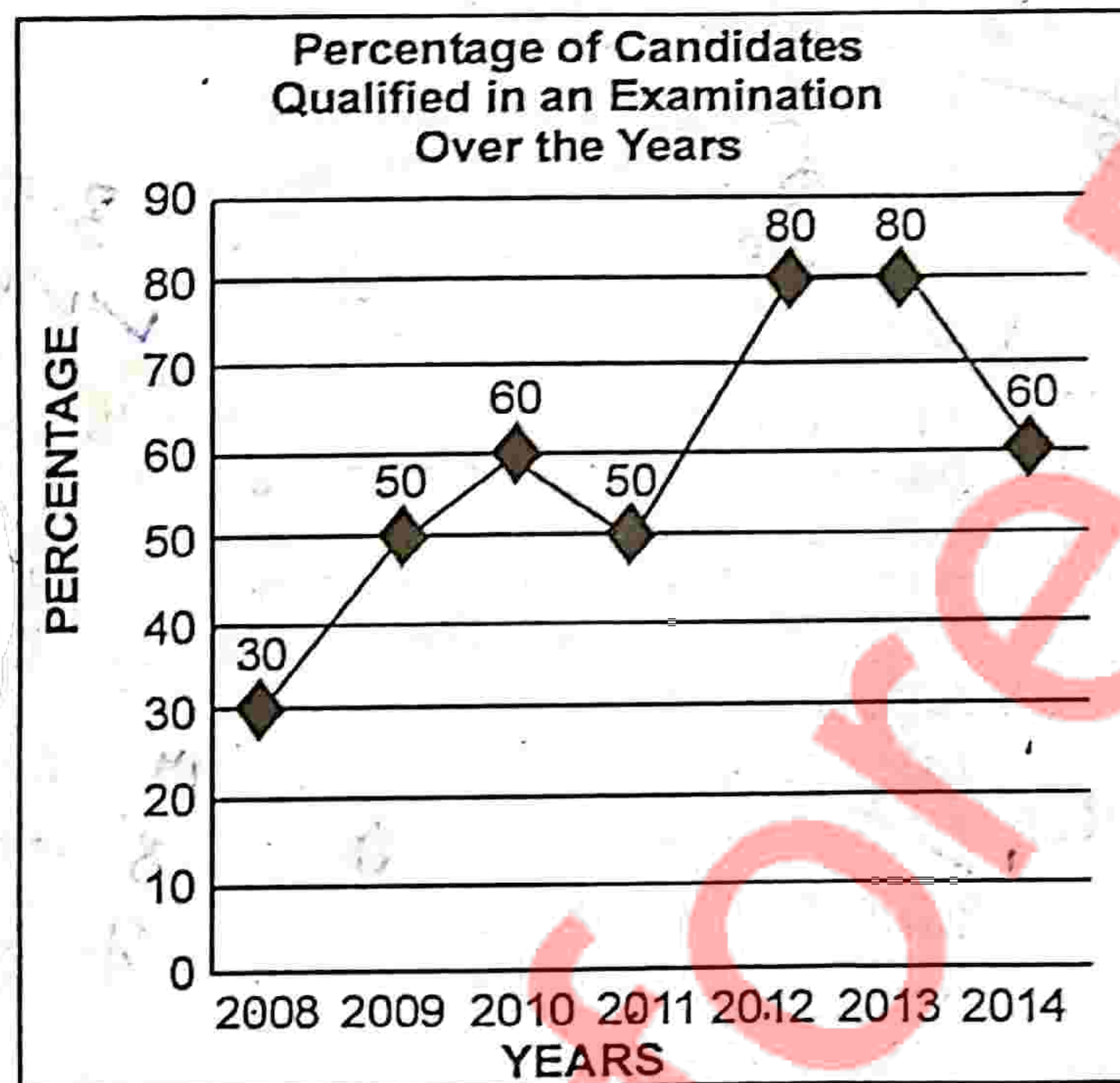
1. Fill in the OMR answer sheet, mentioning the other data as required, in the portion of the OMR answer sheet. A candidate is liable to render the answer sheet unfit for evaluation.
2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you are incomplete or different from what you have given in the application form, you shall be awarded Zero mark.
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7. Candidates may take with them the respective question-booklet after the examination is over.
8. Failure to comply with or violation of any of the above instructions shall be considered as adopting unfair means and action as deemed proper shall be taken.

SEAL

24. During the period 2005-2010, the minimum rate of change in sales is in the product of :
- Wrist watch
 - Table clock
 - Stop watch
 - Wall clock

25. The sales have increased /decreased by nearly 135% from 2005 to 2010 in :
- Table clock
 - Wrist watch
 - Stop watch
 - Wall clock

(Q. 26-30) The following line graph gives the percentage of the number of candidates who qualified in examination out of the total number of candidates who appeared for the examination over a period of seven years from 2008-2014 :



26. The difference between the percentage of candidates qualified, was maximum in which of the following pair of years ?
- 2008 and 2013 50
 - 2011 and 2012 30
 - 2012 and 2013 0
 - 2013 and 2014 20

27. In which pair of years was the number of candidates qualified the same ?
- 2009 and 2011
 - 2009 and 2014
 - 2012 and 2013
 - Data inadequate

28. If the number of candidates qualified in 2012 was 21200, what was the number of candidates appeared in 2012 ?
- 32000
 - 28500
 - 26500
 - 25000

29. If the total number of candidates appeared in 2010 and 2011 together was 47400, then the total number of candidates qualified in these two years together was :
- 34700
 - 32100
 - 31500
 - Data inadequate

30. The total number of candidates qualified in 2013 and 2014 together was 33500 and the number of candidates appeared in 2013 was 26500. What was the number of candidates appeared in 2014 ?
- 24500
 - 22000
 - 20500
 - 19000

Arithmetic

31. Sunil covered a certain distance at some speed. Had he moved 3 kmph faster, he would have taken 20 minutes less. If he had moved 2 kmph slower, he would have taken 20 minutes more. The distance (in km) is :

- 20
 - $26\frac{2}{3}$
 - $15\frac{1}{2}$
 - 30
32. A student gets 4 marks for a correct answer and 1 mark is deducted for a wrong answer. If she has attempted 80 questions and she has got 240 marks the number of questions she did wrong were :
- 21
 - 24
 - 16
 - None of these

33. A Milkman's vessel is filled with liquid, 4 parts of which are water and 5 parts milk. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half milk ?
- (a) $\frac{1}{3}$
 (b) $\frac{1}{4}$
 (c) $\frac{1}{5}$
 (d) $\frac{1}{10}$
34. $(1296)^{0.16} \times (1296)^{0.09} = ?$
- (a) 256
 (b) 316
 (c) 6
 (d) 8
35. The value of $\frac{978.1375 \times 0.0497 \times 1.956}{0.0866 \times 92.781 \times 99.739}$ is closest to :
- (a) 0.117
 (b) 1.17
 (c) 11.7
 (d) 117
36. A number when divided by 12 leaves remainder 4. When the square of the number is divided by 16, the remainder is :
- (a) 0
 (b) 13
 (c) 11
 (d) 4
37. A boat having a length 2.5 m and breadth 2 m is floating on a pond. The boat sinks by 2 cm when Siddharth gets on it. Assuming density of water being 1g/cm^3 the mass of Siddharth is :
- (a) 80 kg
 (b) 85 kg
 (c) 100 kg
 (d) 93 kg
38. If 100 cats kill 100 mice in 100 days, then 4 cats would kill 4 mice in how many days ?
- (a) 1 day
 (b) 4 days
 (c) 40 days
 (d) 100 days
39. The captain of a cricket team of 11 members is 29 years old and the vice-captain is 2 years older. If the ages of these two are excluded, the average age of the remaining players is two years less than the average age of the whole team. What is the average age of the team ?
- (a) 23 years
 (b) 22 years
 (c) 24 years
 (d) None of these
40. At what time between 5 : 30 and 6 will the hands of a clock be at right angles ?
- (a) $43\frac{7}{11}$ minutes past 5
 (b) $43\frac{5}{11}$ minutes past 5
 (c) 40 minutes past 5
 (d) 41 minutes past 5
41. On what dates of April, 2001 did Wednesday fall ?
- (a) 1st, 8th, 15th, 22nd, 29th
 (b) 2nd, 9th, 16th, 23rd, 30th
 (c) 3rd, 10th, 17th, 24th
 (d) 4th, 11th, 18th, 25th
42. Ajit, Sumit and Rashmi are three partners and they shared the profit in a business in the ratio 5 : 7 : 8. They had partnered for 14 months, 8 months and 7 months respectively. What was the ratio of their investments ?
- (a) 5 : 7 : 8
 (b) 20 : 49 : 64
 (c) 38 : 28 : 21
 (d) None of these
43. A shopkeeper bought candies at 5 for a rupee. How many for a rupee must he sell to gain 25% ?
- (a) 3
 (b) 4
 (c) 5
 (d) 6
44. The difference between compound interest and simple interest on an amount of Rs. 10,000 for 2 years is Rs. 144. What is the rate of interest per annum ?
- (a) 8
 (b) 10
 (c) 12
 (d) Cannot be determined

45. A Cistern is filled in 6 hours by three pipes A, B and C. The pipe C is thrice as fast as B and B is twice as fast as A. How much time will pipe B alone take to fill the tank ?

- (a) 20 hours
- (b) 54 hours
- (c) 27 hours
- (d) Cannot be determined

46. Total number of factors of 540 are :

- (a) 24
- (b) 27
- (c) 32
- (d) None of these

47. Two numbers A and B are such that the sum of 5% of A and 4% of B is two-third of the sum of 6% of A and 8% of B. Find the ratio A : B.

- (a) 2 : 3
- (b) 1 : 1
- (c) 3 : 4
- (d) 4 : 3

48. The salaries of Ritu, Nitu and Situ are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries ?

- (a) 3 : 3 : 10
- (b) 10 : 11 : 20
- (c) 23 : 33 : 60
- (d) Cannot be determined

49. Samrat is as much younger than Ritesh as he is older than Tamanna. If the sum of the ages of Ritesh and Tamanna is 50 years, what is definitely the difference between Ritesh and Samrat's age ?

- (a) 1 year
- (b) 2 years
- (c) 25 years
- (d) Data inadequate

50. Three numbers are in the ratio of 2 : 3 : 7 and their L.C.M. is 8400. Their H.C.F. is :

- (a) 40
- (b) 80
- (c) 120
- (d) 200

51. Seema, counted in the following way on the fingers of her left hand :

She started by calling the thumb 1, the index finger 2, middle finger 3, ring finger 4, and little finger 5 and then reversed direction calling the ring finger 6, middle finger 7, index finger 8, thumb finger 9. Then again reversed direction calling index finger 10 and so on. She counted up to 1994. She ended counting on which finger ?

- (a) Thumb
- (b) Index finger
- (c) Middle finger
- (d) Ring finger

52. Alok and Bipul take part in 200 m race. Alok runs at 8 kmph. Alok gives Bipul a start of 8 m and still beats him by 18 seconds. The speed of Bipul is :

- (a) 8.15 kmph
- (b) 5.14 kmph
- (c) 4.25 kmph
- (d) 6.4 kmph

53. A boat takes 90 minutes less to travel 36 miles downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 mph, the speed of the stream is :

- (a) 2 mph
- (b) 2.5 mph
- (c) 3 mph
- (d) 4 mph

54. Two trains of equal lengths take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 150 metres, in what time (in seconds) will they cross each other travelling in opposite direction ?

- (a) 10
- (b) 12
- (c) 15
- (d) 20

55. 4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women complete it ?

- (a) 35
- (b) 40
- (c) 45
- (d) 50

56. There are three numbers A, B and C. The Highest Common Factor of A and B, B and C, C and A are 3, 15 and 3 respectively. If Least Common Multiple

of the three numbers is 300 and their product is 13500, then find the greatest possible number, which can divide them.

- (a) 25
- (b) 3
- (c) 12
- (d) None of these

57. What is the least possible number, which when divided by 18, 35 or 42, it leaves 2, 19, and 26 as the remainders respectively ?

- (a) 1244
- (b) 614
- (c) 1874
- (d) None of these

58. The number of zeros at the end of the expression

$$10 \times 100 \times 1000 \times 10000 \dots \times 10000000000 \text{ is :}$$

- (a) 10
- (b) 100
- (c) 50
- (d) 55

59. Find the 11th term from the last term (towards the first term) of the AP : 10, 7, 4, ... - 62.

- (a) - 32
- (b) - 35
- (c) - 29
- (d) 32

60. 10 years ago, the average age of all the 25 teachers of a school was 45 years. 4 years ago, the Principal has retired from her post at the age of 60 years. So, after one year, a new Principal, whose age was 54 years, recruited from outside. If Principal is also counted as a teacher, then the present average age of all the teachers is :

- (a) $54 \frac{18}{25}$ years
- (b) $55 \frac{19}{25}$ years
- (c) $53 \frac{8}{25}$ years
- (d) None of these

61. The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game, he is out of the tournament. There are no ties. What is the minimum number of

matches that must be played to determine the winner ?

- (a) 15
- (b) 29
- (c) 61
- (d) None of these

62. If the price of petrol falls down by 20%; by how much percent, must a person increase its consumption, so as to maintain the expenditure on petrol same as previous ?

- (a) 20%
- (b) 25%
- (c) 33.33%
- (d) 80%

63. If the cost price of 15 apples is same as the selling price of 20 apples, what is the gain or loss percent ?

- (a) 25% gain
- (b) 25% loss
- (c) 33.33% gain
- (d) 33.33% loss

64. Jadeja purchased a car 3 years ago for Rs 2 Lakhs. Its value depreciated each year by 25% per annum. What is the present value of the car ?

- (a) 85260
- (b) 84050
- (c) 84375
- (d) 82540

65. 16 workers working 6 hours a day, can build a wall of length 150 m, breadth 20 m and height 12 m in 25 days. In how many days 12 workers, working 8 hours a day, can build a wall of length 800 m, breadth 15 m, height 6 m ?

- (a) 60
- (b) 50
- (c) 40
- (d) None of these

66. A and B started simultaneously towards each other, from P and Q respectively. The distance between P and Q is 600 km and the ratio of speeds of A and B is 5 : 7. If they meet at a point M, then the distance PM is :

- (a) 350 km
- (b) 150 km
- (c) 250 km
- (d) None of these

67. Savita and Hamida are friends. What is the probability that both will have different birthdays ? (Ignoring a leap year).

- (a) $\frac{365}{366}$
 (b) $\frac{364}{365}$
 (c) $\frac{363}{365}$
 (d) $\frac{363}{366}$

68. What is the product of all the numbers in the dial of a telephone ?

- (a) 1,58,480
 (b) 1,59,450
 (c) 0
 (d) None of these

69. What is the unit digit in

- $\{(6374)^{1793} \times (625)^{317} \times (341)^{491}\}$?
 (a) 0
 (b) 2
 (c) 3
 (d) 5

70. On dividing 2272 as well as 875 by 3-digit number N, we get the same remainder. The sum of the digits of N is :

- (a) 10
 (b) 11
 (c) 12
 (d) 13

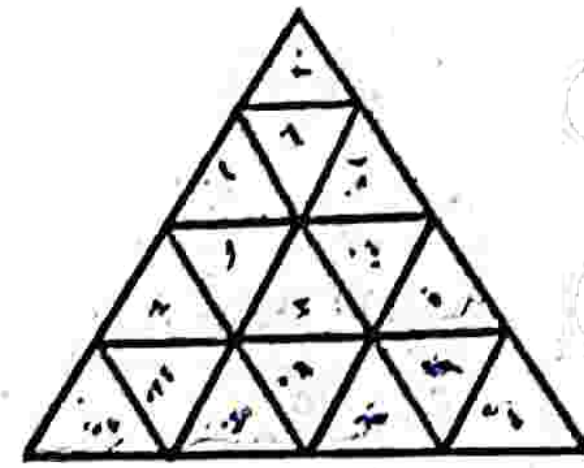
71. A boy multiplied 987 by a certain number and obtained 559981 as his answer. If in the answer both 9 are wrong and the other digits are correct, then the correct answer would be :

- (a) 553681
 (b) 555181
 (c) 555681
 (d) 556581

72. A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. The number is :

- (a) 145
 (b) 253
 (c) 370
 (d) 352

73. Count the number of triangles in given figure :



- (a) 24
 (b) 26
 (c) 27
 (d) 28

74. A man wears socks of two colours - black and brown. He has altogether 20 black socks and 20 brown socks in a drawer. Supposing he has to take out the socks in the dark, how many least number of socks must he take out to be sure that he has matching pair ?

- (a) 3
 (b) 20
 (c) 39
 (d) None of these

75. Which of the following statements are true ?

- (i) Every whole number is a natural number.
 (ii) Every integer is a rational number.
 (iii) Every rational number is an integer.

- (a) (ii) only
 (b) (i) and (ii) only
 (c) (iii) only
 (d) All are true statements

Logical Reasoning

76. If in a code language 'MATCH' is written as 'NCWGM' and 'BOX' as 'CQA', then how will 'NOTEBOOK' be written in the same language ?

- (a) OQWGIUVS
 (b) OQWIGVUS
 (c) OQWIGUVS
 (d) OQWIGUSV

77. If in a code language, "LUXOR" is written as 30, then in the same language, "GUILDS" will be written as :

- (a) 36
 (b) 38
 (c) 24
 (d) 40

Re - Accountant 30.07.2023

35

S A R 2022

DO NOT OPEN THE SEAL OF THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO.

Question Booklet Series Code:

D

Question Book Series No:

146484

Time Allowed: 02.00 hours

Total Questions: 150

Maximum marks: 150

There shall be negative marking @ 0.25 mark per question for wrong /multiple answers.

Before answering any question, check the Booklet and check that it contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

For complete solution join before exam youtube channel

2. Correcting fluid , eraser , blade , books , textual material , scripts notes/loose paper, calculator , document, slide rules, log tables/ electronic watches, smart watch, cell phone, pager, other electrical/electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he/she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.

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26. What was the ratio of pulse production to maize production in the country as a whole?

- a) 23:22
- b) 23:26
- c) 7:8
- d) 7:9

27. If the production of wheat in the state 'F' increases 5% every year, what would be its estimated wheat production in 2018?

- a) 128.25 lakh tons
- b) 132.3 lakh tons
- c) 130.2 lakh tons
- d) 132.2 lakh tons

28. If the average yield per hectare of maize in the country was 24 tons, then the area (approx) under maize cultivation during that year was (in lakh hectares)

- a) 7.55
- b) 7.66
- c) 7.77
- d) Can't be determined

29. Total rice production of the country is how much more/less than the total wheat production?

- a) 86 lakh tons more
- b) 76 lakh tons more
- c) 76 lakh tons less
- d) 86 lakh tons less

30. What is the average barley production per state (in lakh tons) in the year 2016?

- a) 18.66
- b) 19.14
- c) 21.33
- d) 20.65

Direction for Questions (31 to 35):

Refer to the following data to answer the questions that follow:

The result of an exam is given below:

Out of 2000 students who appeared

- I. 1316 failed in Telugu
- II. 332 failed in Telugu and Punjabi
- III. 744 failed in Punjabi, 868 failed in Telugu and Bengali
- IV. 1180 failed in Bengali, 252 failed in Bengali and Punjabi

31. The number of students who failed in all the three subjects is

- a) 356
- b) 146
- c) 212
- d) 252

32. The number of students who failed in Bengali but not in Punjabi is

- a) 928
- b) 784
- c) 774
- d) 944

33. The number of students who failed in Telugu but not in Bengali is

- a) 448
- b) 896
- c) 1512
- d) 928

34. The number of students who failed in Punjabi but not in Telugu is

- a) 318
- b) 198
- c) 213
- d) 412

35. The number of students who failed in Telugu or Bengali but not in Punjabi is

- a) 1234
- b) 1432
- c) 1256
- d) 1342

Arithmetic

36. The minute hand of a clock moves through a distance of 20 minutes. The angle made between its initial and final position is

- a) 90°
- b) 100°
- c) 120°
- d) 150°

37. Four oranges and two apples cost Rs. 100. Two oranges and four apples cost Rs. 110. What is the cost of one apple?

- a) Rs. 10
- b) Rs. 15
- c) Rs. 20
- d) Rs. 25

38. A circular field has a radius of 35 ft. A boundary rope is set up circling the entire field. What is the length of the boundary rope?

- a) 200 ft
- b) 210 ft
- c) 215 ft
- d) 220 ft

39. Three friends Aakash, Chirag and Piyush undertake to do a job. Aakash could do the job in 12 days working alone, Chirag in 4 days and Piyush in 6 days. In how many days can they complete the job while working together?

- a) 1 day
- b) 2 days
- c) 3 days
- d) Cannot be determined

40. Sachin gets 86 in English, 48 in Hindi, 64 in Mathematics, 72 in Social Science and 60 in Science. If all the scores are out of 100, then what is his total percentage?
- 62%
 - 64%
 - 66%
 - 68%
41. A father is seven times as old as his son. After five years, the father will be four times the age of his son. What is the difference between their ages?
- 25 years
 - 30 years
 - 35 years
 - Cannot be determined
42. Which of following years in the English calendar is not a leap year?
- 1512
 - 1982
 - 2032
 - 2272
43. A number of men went to a hotel and each spent as many rupees as there were men. If the money spent was Rs. 15625, the number of men was
- 115
 - 125
 - 135
 - 145
44. A, B and C enter into partnership by making investments in the ratio 3 : 5 : 7. After a year, C invests another Rs. 3,37,600 while A withdraws Rs. 45,600. The ratio of investments changes to 24 : 59 : 167. The initial investment of A was
- Rs. 45,600
 - Rs. 96,000
 - Rs. 1,41,600
 - None of these
45. How long will a train 60 m long travelling at 40 km an hour take to pass through a station whose platform is 90 m long?
- 14 seconds
 - 13.5 seconds
 - 14.5 seconds
 - None of these
46. A person spends $\frac{1}{12}$ of his salary on charity, $\frac{1}{8}$ of his salary on purchasing books and $\frac{3}{4}$ of his salary on foods and clothing. If his salary is Rs. 16824, find the balance amount with him.
- Rs. 700
 - Rs. 7001
 - Rs. 710
 - Rs. 701
47. The least number of 4 digits which is exactly divisible by 9 is
- 1009
 - 1018
 - 1027
 - None of these
48. What least number must be subtracted from the greatest number of five digits so that the remainder number is a perfect square?
- 134
 - 143
 - 133
 - 153
49. A and B undertake to do a work for Rs. 560. A can do it alone in 7 days and B in 8 days. If with assistance of C, they finish the work in 3 days, then C gets approximately
- Rs. 110
 - Rs. 100
 - Rs. 120
 - Rs. 140
50. A man spends 75% of his income. His income increases by 20% and his expenditure also increases by 10%. Find the percentage increase in his savings.
- 40%
 - 30%
 - 50%
 - 25%
51. The LCM of two numbers is 14 times their HCF. The sum of HCF and LCM is 600. If one of the numbers is 80, then the other number is
- 160
 - 280
 - 60
 - 40
52. A cricketer scored 158 runs in the first test and 201 runs in the second test. If his average of the runs scored in the first three tests is 195, the runs scored by him in the third test are
- 226
 - 225
 - 236
 - 216
53. A streamer goes downstream and covers the distance between two ports in 4 hours while it covers the same distance upstream in 5 hours. If the speed of the stream is 2km/h; then the speed of the streamer in still water is
- 20 km/h
 - 19 km/h
 - 18 km/h
 - 19.5 km/h

54. The ratio between the present ages of A and B is 5:8. After 4 years the ratio between their ages will be 2:3. The present age of B is
- 36 years
 - 20 years
 - 24 years
 - 32 years
55. Ram and Shyam working separately can finish a job in 8 and 12 hours respectively. If they work for an hour alternately, Ram beginning at 9 am, at what time will the job be finished?
- 7:30 p.m.
 - 7:00 a.m.
 - 6:30 p.m.
 - 6:00 p.m.
56. If the 25th of August in a year is Thursday, find the number of Mondays in that month
- 3
 - 4
 - 5
 - 6
57. Ratan had Rs. 240 out of which he gave one-third of the amount to Amal. Then Ratan gave half of what he had left to Kamal. How much money does Ratan have now?
- 70
 - 75
 - 80
 - 90
58. A trader buys 100 apples for Rs. 800. He discovered that 20 of the apples were rotten and could not be sold. He sold the remaining apples and made a total profit of 10%. What was the selling price of each apple?
- Rs. 11
 - Rs. 12
 - Rs. 13
 - Rs. 14
59. A shopkeeper tags an item at 20% higher than the cost price. Then he gives a discount of 10%. What is his profit percentage?
- 8%
 - 10%
 - 12%
 - Depends on the price of the item.
60. A trader buys two varieties of tea – type-I at Rs. 400 per kg and type-II at Rs. 300 per kg. He mixed 2 kg of type-I with one kg of type-II. He sells off the mixture at Rs. 400 per kg. What is the profit made by the trader for selling 6 kg of the tea?
- Rs. 100
 - Rs. 125
 - Rs. 175
 - Rs. 200
61. If the digits of a 3-digit number are reversed then the number so obtained is less than the original number by 297. If sum of the digits of the number is 8 & its hundred's digit has the largest possible value, then the ten's digit in the number is
- 3
 - 2
 - 1
 - 0
62. There are 527 apples, 646 pears and 748 oranges. These are to be arranged in heaps containing the same number of fruits. Each heap should contain fruits of only one kind and with the greatest number of fruits possible. How many such heaps are formed?
- 113
 - 117
 - 110
 - 112
63. In what ratio must a grocer mix two varieties of pulses costing Rs. 15 and Rs. 20 per kg respectively so as to get a mixture worth Rs. 16.50 kg?
- 7:3
 - 3:8
 - 5:7
 - 7:5
64. Two pipes A and B can fill a cistern in 12 minutes and 15 minutes respectively. There is an outlet C also. If all the three pipes are opened together, the cistern is full in 10 minutes. How much time will be taken by C to empty the full cistern?
- 10 minutes
 - 20 minutes
 - 15 minutes
 - none of these
65. To fill a tub, 20 buckets of water is required. How many mugs of water will be required to fill the same tub, if the capacity of the mug is two-fifth of the capacity of the bucket?
- 50
 - 40
 - 8
 - Cannot be determined
66. The sum of ages of 7 children born at the intervals of 3 years each is 70 years. What is the age of the oldest child?
- 16 years
 - 24 years
 - 27 years
 - 19 years
67. The average of 10 numbers is zero. Of them, at the most, how many may be greater than zero?
- 0
 - 7
 - 10
 - 9

68. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?
- a) 57%
 b) 60%
 c) 65%
 d) 90%

69. In a dairy farm, 40 cows eat 40 bags of husk in 40 days. In how many days one cow will eat one bag of husk?
- a) 1 day
 b) 40 days
 c) 80 days
 d) 60 days

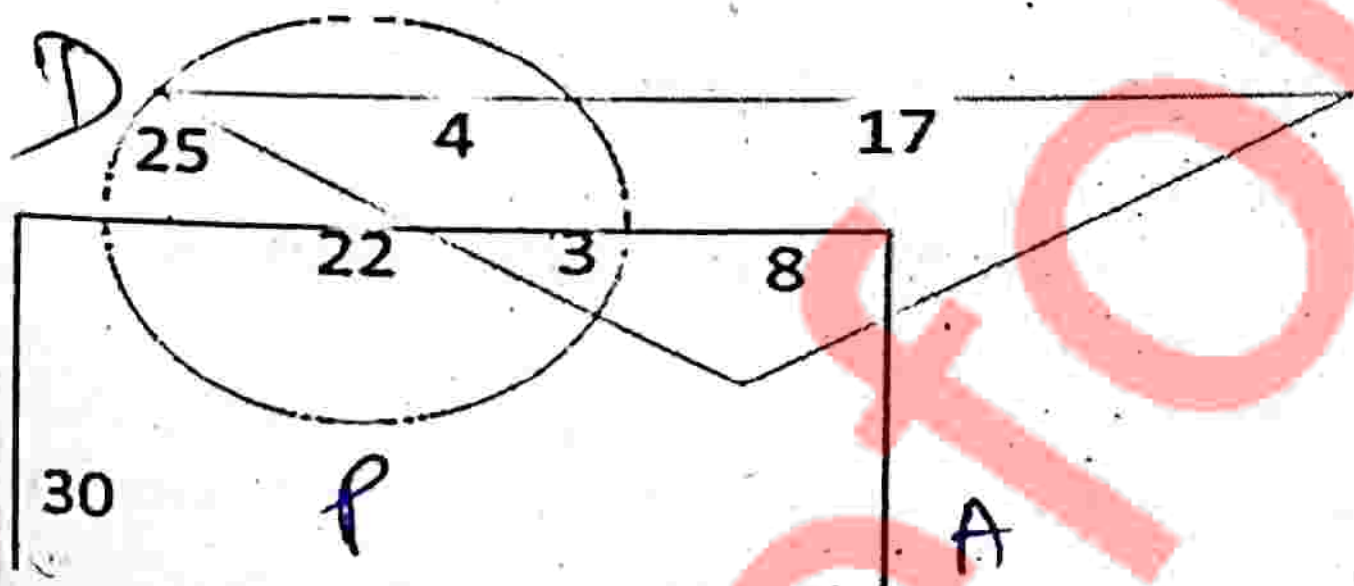
70. A man crosses a street 600 m long in 5 minutes. His speed in km/h is
- a) 7.2
 b) $\frac{5}{36}$
 c) 3.6
 d) 10

Logical Reasoning

Direction for Questions (71 to 74):

Study the following figure carefully and answer the questions below it.

- Triangle = Doctors
- Circle = Players
- Rectangle = Artists



71. How many doctors are both players and artists?
- a) 4
 b) 3
 c) 8
 d) 11

72. How many artists are players?
- a) 22
 b) 30
 c) 25
 d) 29

73. How many players are neither artists nor doctors?
- a) 25
 b) 22
 c) 4
 d) 3

74. How many doctors are players but not artists?
- a) 17
 b) 4
 c) 7
 d) 22

Direction for Questions (75 to 79):

Read the information given below and answer the questions that follow.

- Five plays A, B, C, D and E are to be staged on five days from Monday to Saturday.
- One of these days will be a holiday on which no Play will be staged.
- Play B is staged two days before the holiday.
- Thursday is not the holiday.
- Play D is staged on Tuesday.
- Play C is staged on Friday.
- Play E is staged on the previous day of Play C.

75. Which day of the week is holiday?
- a) Monday
 b) Wednesday
 c) Thursday
 d) Saturday

76. Which of the following statement is correct on the basis of given information?
- a) Play A is staged two days after the holiday.
 b) Play B is staged on the next day of Play D.
 c) Staging of plays D and E is separated by one day.
 d) Play E is staged on the next day of play C.

77. On which day of the week the play A staged?
- a) Monday
 b) Tuesday
 c) Friday
 d) Saturday

78. Play E is scheduled to be held on _____
- a) Monday
 b) Thursday
 c) Friday
 d) None of these days

79. If the plays C and B are interchanged, how many days' gap will be there between the staging of plays D and B?
- a) One
 b) Two
 c) Three
 d) Four

80. If 'x' means 'added to';
 '÷' means 'multiplied by';
 '+' means 'subtracted from' and
 '-' means 'divided by'

Then
 $24 + 36 - 12 \times 8 \div 4 = ?$

- a) 36
 b) 53
 c) 5
 d) None of these

7

Amin-2022

20.08.2023

MRGN-2022

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

C

Question Booklet Series No:

272415

Time Allowed: 1 Hour 30 Minutes

Total Questions: 100

Maximum Marks: 100

There shall be negative marking @ 0.25 marks per question for wrong/multiple answers

Before answering any question, check the booklet that it contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

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2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you is incomplete or different from what you have given in the application form, you shall be awarded Zero mark.
4. Answer must be given by completely darkening one of the four circles / ovals representing the most appropriate answer given on the Answer Sheet corresponding to the relevant question. For answers not shown by properly darkening in black / blue ball point pen, no marks shall be awarded.
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6. After the examination is over, candidates must ensure to fold the OMR Answer Sheet at the perforation and separate the Original Copy and Candidate's Copy of the Two Part OMR Answer Sheet in the presence of the Invigilator and handover the Original Copy to the Invigilator. The Candidate's Copy of the OMR Answer sheet may be taken by the candidate. Failure to hand over the original copy of the OMR Answer Sheet to the Invigilator before leaving the examination hall / room shall make the candidate liable for penal action.
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12. What is the term of the office of President of India?

- a) Four years
- b) Five years
- c) Six years
- d) Three years.

13. Article 14 to 18 of Constitution of India deals with:

- a) Right to equality
- b) Right to freedom
- c) Directive principle of state policy
- d) Fundamental duties

14. Seventh schedule of Constitution deals with:

- a) Union, State and Concurrent lists
- b) Languages
- c) Powers, authority and responsibility of Panchayats
- d) Powers, authority and responsibility of Municipalities

15. Odisha Legislative Assembly comprises of how many members?

- a) 137
- b) 147
- c) 157
- d) 145

16. India is _____ largest economy of the world measured in current dollars.

- a) 3rd
- b) 4th
- c) 5th
- d) 6th

17. What is the largest export from Odisha in value terms?

- a) Metallurgical
- b) Engineering, Chemical and Allied
- c) Minerals
- d) Marine

18. During 1850-2019, what percent of cumulative global emissions has India contributed?

- a) 3%
- b) 4%
- c) 5%
- d) 7%

19. Which Indian state has the maximum carbon stock in forest?

- a) Madhya Pradesh
- b) Arunachal Pradesh
- c) Jammu & Kashmir
- d) Himachal Pradesh

20. What was the share of Odisha in production of chromite in India during the year 2021-22?

- a) 70%
- b) 80%
- c) 90%
- d) 100%

Arithmetic

21. A person invests Rs. 500 at 10% simple interest. He withdraws the entire sum after five years. What is the amount that he would get?

- a) Rs. 500
- b) Rs. 600
- c) Rs. 700
- d) Rs. 750

22. A man walks 10 km towards north. From there he walks 6 km towards south. Then he walks 3 km towards east. How far and in which direction is he with reference to his starting point?

- a) 7 km east.
- b) 5 km west
- c) 5 km north-east
- d) None of these

23. A, B and C together can do a work in 12 days. A alone can do the work in 36 days and B alone can do the same in 54 days. C alone can do it in:

- a) 9 days
- b) 18 days
- c) 24 days
- d) 27 days

24. A tricycle was sold for Rs. 873 at a loss of 3%. Its cost price is:

- a) Rs. 846.81
- b) Rs. 899.19
- c) Rs. 927
- d) Rs. 900

25. A man is thrice as old as his son. Three years ago the man was 4 times as old as his son. Find their present age.

- a) 27, 9
- b) 30, 10
- c) 24, 6
- d) 33, 11

26. The sides of a triangle are in the ratio 1 : 3 : 5. Its perimeter is 90 cm., the length of its largest side is:

- a) 40 cm
- b) 48 cm
- c) 50 cm
- d) 54 cm

27. The sum of two integers is -25. If one of them is 30, then the other is:

- a) 55
- b) 5
- c) -55
- d) None of these

28. The smallest of the fractions

$\frac{3}{4}, \frac{5}{6}, \frac{7}{12}, \frac{2}{3}$ is

- a) $\frac{2}{3}$
- b) $\frac{3}{4}$
- c) $\frac{4}{5}$
- d) $\frac{5}{6}$

29. 2m 5cm is equal to:

- a) 2.5 m
- b) 2.05 m
- c) 2.005 m
- d) 0.25 m

30. If 10 be added to four times a number, the result is 5 less than five times the number. The number is:

- a) 15
- b) 20
- c) 25
- d) 35

31. The ratio 115 : 138 in its simplest form is:

- a) 2 : 3
- b) 3 : 4
- c) 1 : 2
- d) 5 : 6

32. The sum of two odd numbers is:

- a) an odd number
- b) an even number
- c) sometimes odd sometimes even
- d) can't be ascertained

33. Rishab asked his Grandfather how old he was. Rather than giving him a straight answer, he replied: "I have 6 children, and there are 4 years between each one and the next. I had my first child (your Uncle Ravi) when I was 29. Now the youngest one (your Auntie Ramita) is 29 herself. That's all I'm telling you!" How old is Rishab's grandfather?

- a) 76
- b) 78
- c) 82
- d) 86

34. What least number must be added to 1056, to get a number exactly divisible by 23?

- a) 25
- b) 38
- c) 2
- d) 12

35. Find the largest 3 digit number divisible by 16?

- a) 982
- b) 992
- c) 988
- d) 912

36. The cost of ploughing a field at Rs. 3 per m^2 is Rs. 624. If the breadth of the field is 13m then its length is:

- a) 8 m
- b) 16 m
- c) 39 m
- d) 32 m

37. Two natural numbers whose sum is 85 and the least common multiple is 102, is:

- a) 35 and 50
- b) 34 and 51
- c) 17 and 68
- d) 30 and 55

38. A gardener wants to plant 66 apple trees, 88 banana trees and 110 mango trees in rows with equal number of trees and with each row having only one kind of tree. The least number of rows required is:

- a) 6
- b) 8
- c) 10
- d) 12

39. The least number divisible by all numbers from 1 to 10, both inclusive, is:

- a) 5040
- b) 504
- c) 252
- d) 2520

40. A, B and C can complete a job in 10 days while working together. If D joins them, the job is completed in 8 days. In how many days can D complete the job, if working alone?

- a) 30
- b) 40
- c) 50
- d) 60

41. The least number which should be added to 2497, so that the sum is exactly divisible by 5, 6, 4 and 3 is:

- a) 13
- b) 23
- c) 33
- d) 43

42. What decimal of an hour is a second ?

- a) .0025
- b) .0256
- c) .00027
- d) .000126

43. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 2 hours, it must travel at a speed of:

- a) 300 kmph
- b) 360 kmph
- c) 600 kmph
- d) 720 kmph

44. A motorboat, whose speed in 15 km/hr in still water, goes 30 km downstream and comes back to starting point in a total of 4 hours 30 minutes. The speed of the stream (in km/hr) is:

- a) 4
- b) 5
- c) 6
- d) 10

45. Find the ratio in which rice at Rs. 7.20 a kg be mixed with rice at Rs. 5.70 a kg to produce a mixture worth Rs. 6.30 a kg.

- a) 1 : 3
- b) 2 : 3
- c) 3 : 4
- d) 4 : 5

46. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?

- a) 6.25
- b) 6.5
- c) 6.75
- d) 7

47. The price of 2 sarees and 4 shirts is Rs. 1600. With the same money, one can buy 1 saree and 6 shirts. If one wants to buy 12 shirts, how much shall he have to pay?

- a) Rs. 1200
- b) Rs. 2400
- c) Rs. 4800
- d) Cannot be determined

48. Two students appeared in an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

- a) 39, 30
- b) 41, 32
- c) 42, 33
- d) 43, 34

49. A starts business with Rs. 3500 and after 5 months, B joins with A as his partner. After a year, the profit is divided in the ratio 2 : 3. What is B's contribution in the capital?

- a) Rs. 7500
- b) Rs. 8000
- c) Rs. 8500
- d) Rs. 9000

50. In a family, the father took $\frac{1}{4}$ of the cake and the rest of cake was distributed equally among rest of family members. Still the father had 3 times as much as each of the other members had. Then, the total number of family members is:

- a) 3
- b) 7
- c) 10
- d) 12

Computer and Internet Awareness

51. If a previously saved file is edited

- a) The changes will automatically be saved in the file
- b) The file will only have to be saved again, if it is more than one page in length
- c) Its name must be changed
- d) The file must be saved again to store the changes

52. Which power point view displays each slide of the presentation as a thumbnail and is useful for rearranging slides?

- a) Slide Sorter
- b) Slide show
- c) Slide master
- d) Notes Page

53. What is the main folder on a storage device called ?

- a) Root directory
- b) Interface
- c) Device driver
- d) Platform

54. The word wrap feature -

- a) Automatically moves the text to next line when necessary
- b) Appears at the bottom of the document
- c) Allows you to type over text
- d) Is the short horizontal line indicating the end of the document

55. A process known as _____ is used by large retailers to study trends.

- a) POS
- b) Data Conversion
- c) Data Mining
- d) Data Selection

56. Personal logs or journal entries posted on the Web are known as :

- a) Listservs
- b) Webcasts
- c) Blogs
- d) subject directories

57. You must install a _____ on a network if you want to share a broadband Internet connection.

- a) router
- b) modem
- c) node
- d) cable

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CHSL-2023

17.12.2023

38

CGLA-2022

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

B

Question Booklet Series No:

190018

Time Allowed: 2 Hours

Total Questions: 150

Maximum Marks: 150

There shall be negative marking @ 0.25 marks per question for wrong/multiple answers

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SEAL

Arithmetic

1. Cost of an Apple is Rs. 7 each whereas a Mango costs Rs. 5 each. A man spends a total of Rs. 38 on these fruits. The number of Apples that he purchased were:

- a) 2
- b) 3
- c) 4
- d) Data inadequate

2. Jitendra says, "If you reverse the digits in my age, the number that you will obtain will be Dharmendra's age. Dharmendra is older than me and the difference of ages of me & Dharmendra will be one-eleventh of the sum of our ages." The age of Jitendra is:

- a) 23 years
- b) 34 years
- c) 45 years
- d) None of these

3. Ananya had a total of Rs. 320 in the denominations of 1-rupee coins, 5-rupee coins & 10-rupee coins. Given that the number of coins for all the denominations is same. What is the total no. of coins that she has?

- a) 45
- b) 60
- c) 75
- d) 90

4. The sum of the ages of 3 people A, B and C is 90 years. What would be the total of their ages 4 years back?

- a) 74 years
- b) 78 years
- c) 86 years
- d) 80 years

5. A mixture of 150 liters of wine and water contains 20% water. How much more water should be added so that water becomes 25% of the new mixture?

- a) 10 liters
- b) 20 liters
- c) 30 liters
- d) 40 liters

6. Find the LCM of 5, 10, 15.

- a) 20

b) 60

c) 90

d) 30

7. A family consists of two grandparents, two parents and three grandchildren. The average age of the grandparents is 67 years, that of the parents is 35 years and that of the grandchildren is 6 years. What is the average age of the family?

- a) $28\frac{4}{7}$
- b) $31\frac{5}{7}$
- c) $32\frac{1}{7}$
- d) None of these

8. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?

- a) 76 kg
- b) 76.5 kg
- c) 85 kg
- d) Data inadequate

9. A fruit seller had some mangoes. He sells 40% mangoes and still has 420 mangoes. How many mangoes does he had initially?

- a) 588
- b) 600
- c) 672
- d) 700

10. The cube root of 0.000216 is:

- a) 0.6
- b) 0.06
- c) 0.66
- d) 0.006

11. The least perfect square, which is divisible by each of 21, 36 and 66 is:

- a) 213444
- b) 214344
- c) 214434
- d) 231444

12. Running at the same constant rate, 6 identical machines can produce a total of 270 bottles per minute. At this rate, how many

bottles could 10 such machines produce in 4 minutes?

- a) 648
- b) 1800
- c) 2700
- d) 10800

13. A shopkeeper buys a Pen for Rs 20. At what price he should sell the Pen to earn a profit of 25% ?

- a) 22
- b) 25
- c) 28
- d) 30

14. Mr. Rajib invested an amount of 13,900 divided in two different schemes A and B at the simple interest rate of 14% per annum and 11% per annum respectively. If the total amount of simple interest earned in 2 years be 3508, what was the amount invested in Scheme B?

- a) 6400
- b) 6500
- c) 7200
- d) 7500

15. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

- a) 2 : 3 : 4
- b) 6 : 7 : 8
- c) 6 : 8 : 9
- d) None of these

16. $(112 \times 5^4) = ?$;

- a) 67000
- b) 70000
- c) 76500
- d) 77200

17. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still water (in km/hr) is:

- a) 3 km/hr
- b) 5 km/hr
- c) 8 km/hr
- d) 9 km/hr

18. The largest 4-digit number exactly divisible by 88 is:

- a) 9944
- b) 9768
- c) 9988
- d) 8888

19. A printer can print 20 pages per minute. How much time will it take to print a document of 300 pages ?

- a) 10 minutes
- b) 15 minutes
- c) 20 minutes
- d) 25 minutes

20. How many 3-digit numbers are completely divisible 6 ?

- a) 149
- b) 150
- c) 151
- d) 166

21. When 0.232323.... is converted into a fraction, then the result is:

- a) 23/5
- b) 23/9
- c) 23/99
- d) 23/100

22. January 1, 2008 is Tuesday. What day of the week is Jan 1, 2009?

- a) Monday
- b) Wednesday
- c) Thursday
- d) Sunday

23. A train 360 m long is running at a speed of 45 km/hr. In what time will it pass a bridge 140 m long?

- a) 40 sec
- b) 42 sec
- c) 45 sec
- d) 48 sec

24. In 100 m race, A covers the distance in 36 seconds and B in 45 seconds. In this race A beats B by:

- a) 20 m
- b) 25 m
- c) 22.5 m
- d) 9 m

25. At 3:40, the hour hand and the minute hand of a clock form an angle of:

- a) 120°
- b) 125°
- c) 130°
- d) 135°

26. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:

- a) 27
- b) 33
- c) 49
- d) 55

27. A, B, C subscribe Rs. 50,000 in total for a business. A subscribes Rs. 4000 more than B and B Rs. 5000 more than C. Out of a total profit of Rs. 35,000, A receives:

- a) Rs. 8400
- b) Rs. 11,900
- c) Rs. 13,600
- d) Rs. 14,700

28. A bank offers 5% compound interest calculated on half-yearly basis. A customer deposits Rs. 1600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is:

- a) Rs. 120
- b) Rs. 121
- c) Rs. 122
- d) Rs. 123

29. On selling 17 balls at Rs. 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is:

- a) Rs. 45
- b) Rs. 50
- c) Rs. 55
- d) Rs. 60

30. Priya stays 8km away from her office. She drives her scooter at a constant speed of 40km/hr. How much time does she take to reach her office?

- a) 20 minutes
- b) 15 minutes

c) 12 minutes

d) 10 minutes

31. The ratio between the length and the breadth of a rectangular park is 3 : 2. If a man cycling along the boundary of the park at the speed of 12 km/hr completes one round in 8 minutes, then the area of the park (in sq. m) is:

- a) 15360
- b) 153600
- c) 30720
- d) 307200

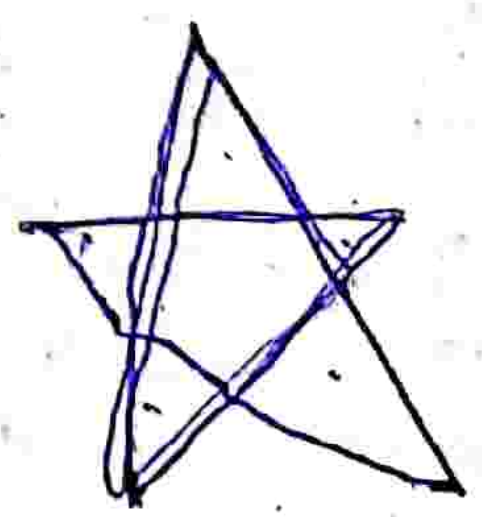
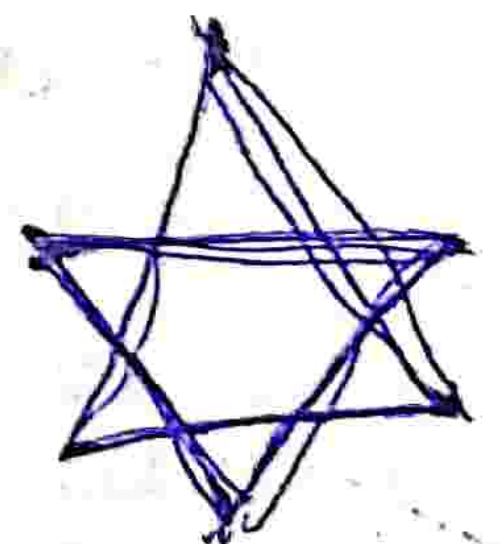
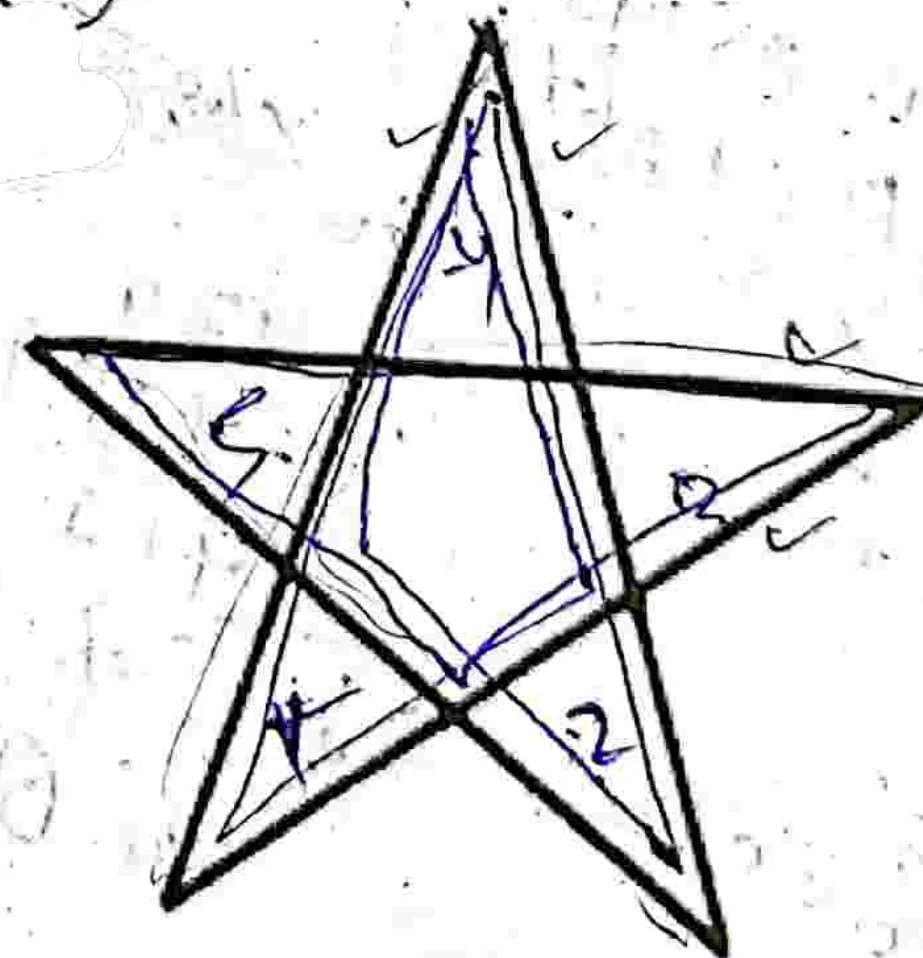
32. In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is:

- a) 75 cu. m
- b) 750 cu. m
- c) 7500 cu. m
- d) 75000 cu. m

33. There are two examinations rooms A and B. If 10 students are sent from A to B, then the number of students in each room is the same. If 20 candidates are sent from B to A, then the number of students in A is double the number of students in B. The number of students in room A is:

- a) 20
- b) 80
- c) 100
- d) 200

34. Find the number of triangles in the given figure.



- a) 5
- b) 6
- c) 8
- d) 10

35. We have a 50 ft piece of rope. If it takes one second to cut it into a 1-foot piece, how long would it take to cut the entire rope into one-foot pieces?

- a) 48 seconds
- b) 49 seconds
- c) 50 seconds
- d) 51 seconds

CHSL-2022

COMPUTER AWARENESS

36. Which of the following is used to connect different external devices?

- a) Address bus
- b) Data bus
- c) Control bus
- d) External bus

37. Which of these keys is not on the number keypad?

- a) Ctrl
- b) Delete
- c) Enter
- d) Num Lock

38. Ctrl, Shift and Alt are called _____ keys.

- a) adjustment
- b) function
- c) modifier
- d) alphanumeric

39. A barcode is _____ code that represents data with bars of varying widths or heights.

- a) read
- b) magnetic
- c) optical
- d) laser

40. MS-Word is a

- a) tabular data formatting software
- b) word processing software
- c) presentation software
- d) E-mail client

41. Shortcut for displaying the full page as they are to be printed is:

- a) Ctrl + F1
- b) Ctrl + F2

- c) Shift + F1
- d) Shift + F2

42. In MS-Excel to select the entire row, which shortcut is used?

- a) Shift + Space
- b) Ctrl + Space
- c) Alt + Space
- d) Ctrl + N

43. In MS-PowerPoint, which key can be used to view slide show?

- a) F1
- b) F2
- c) F5
- d) F10

44. What is the extension of PowerPoint in MS-Office 2007?

- a) .ptp
- b) .pptx
- c) .ppx
- d) .ptx

45. Main memory is:

- a) Random Access Memory
- b) Read Only Memory
- c) Serial Access Memory
- d) Storage Memory

46. Which is a shortcut key to insert a new worksheet in MS-Excel?

- a) Ctrl + W
- b) Ctrl + N
- c) Shift + W
- d) Shift + F11

47. Processors contain a control unit and a/an:

- a) Primary storage unit
- b) Input unit
- c) Arithmetic logic unit
- d) Output unit

48. To move to the beginning of a line of text, we should press the _____ key.

- a) Page up
- b) Shift
- c) Home
- d) Enter

9

04.02.2024
Junior stenographer 2022

23

JSTN-2022

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

A

Question Booklet Series No:

131333

Time Allowed: 2 Hours

Total Questions: 150

Maximum Marks: 150

There shall be negative marking @ 0.25 marks per question for wrong/multiple answers

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INSTRUCTIONS FOR CANDIDATES

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2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
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Arithmetic

1. The largest 4 digit number exactly divisible by 88 is:
a) 9944
b) 9768
c) 9988
d) 8888
2. The difference of two numbers is 1365. On dividing the larger number by the smaller, we get 6 as quotient and the 15 as remainder. What is the smaller number?
a) 240
b) 270
c) 295
d) 360
3. $107 \times 107 + 93 \times 93 = ?$
a) 19578
b) 19418
c) 20098
d) 21908
4. If one-third of one-fourth of a number is 15, then three-tenth of that number is:
a) 35
b) 36
c) 45
d) 54
5. Which one of the following can't be the square of natural number?
a) 30976
b) 75625
c) 28561
d) 143642
6. The square root of 64009 is:
a) 253
b) 347
c) 363
d) 803
7. Five bells begin to toll together and toll respectively at intervals of 6, 5, 7, 10 and 12 seconds. How many times will they toll together in one hour excluding the one at the start?
a) 7 times
b) 8 times
c) 9 times
d) 11 times
8. If $2994 \div 14.5 = 172$, then $29.94 \div 1.45 = ?$
a) 0.172
b) 1.72
c) 17.2
d) 172
9. A train 240 m long passes a pole in 24 seconds. How long will it take to pass a platform 650 m long?
a) 65 sec
b) 89 sec
c) 100 sec
d) 150 sec
10. A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream, it takes 4 hours. What is the speed of the boat in still water?
a) 4 km/hr
b) 6 km/hr
c) 8 km/hr
d) Data inadequate
11. In a 100 m race, Ajay beats Bijay by 10 m and Sujoy by 13 m. In a race of 180 m, Bijay will beat Sujoy by:
a) 5.4 m
b) 4.5 m
c) 5 m
d) 6 m
12. At 3:40, the hour hand and the minute hand of a clock form an angle of:
a) 120°
b) 125°
c) 130°
d) 135°
13. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?
a) 8 : 9
b) 17 : 18
c) 21 : 22
d) Cannot be determined

14. Anand and Binod started a partnership business investing some amount in the ratio of 3:5. Chaitanya joined them after six months with an amount equal to that of Binod. In what proportion should the profit at the end of one year be distributed among Anand, Binod and Chaitanya?
- 3 : 5 : 2
 - 3 : 5 : 5
 - 6 : 10 : 5
 - Data inadequate
15. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:
- 2700
 - 2900
 - 3000
 - 3100
16. A grocer has a sale of Rs. 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500?
- Rs. 4991
 - Rs. 5991
 - Rs. 6001
 - Rs. 6991
17. There is 60% increase in an amount in 6 years at simple interest. What will be the compound interest of Rs. 12,000 after 3 years at the same rate?
- Rs. 2160
 - Rs. 3120
 - Rs. 3972
 - Rs. 6240
18. A shopkeeper earns a profit of 25% on selling a microwave at 15% discount on the Printed Price. Find the ratio of the Printed Price and Cost Price of the Microwave.
- 17:25
 - 25:27
 - 27:25
 - 25:17
19. If 6 men and 8 boys can do a piece of work in 10 days while 26 men and 48 boys can do the same in 2 days, the time taken by 15 men and 20 boys in doing the same type of work will be:
- 4 days
 - 5 days
 - 6 days
 - 7 days
20. Two pipes A and B together can fill a cistern in 4 hours. Had they been opened separately, then B would have taken 6 hours more than A to fill the cistern. How much time will be taken by A to fill the cistern separately?
- 1 hour
 - 2 hours
 - 6 hours
 - 8 hours
21. A is 3 years older to B and 3 years younger to C, while B and D are twins. How many years older is C compared to D?
- 2
 - 3
 - 6
 - 12
22. A man has some hens and cows. If the number of heads be 48 and the number of feet equals 140, then the number of hens will be:
- 22
 - 23
 - 24
 - 26
23. On dividing a number by 68, we get 269 as quotient and 0 as remainder. On dividing the same number by 67, what will the remainder?
- 0
 - 1
 - 2
 - 3
24. Two tailors Ahmed and Saddam are paid a total of Rs. 550 per week by their employer. If Ahmed is paid 120 percent of the sum paid to Saddam, how much is Saddam paid per week?

- a) Rs. 200
- b) Rs. 250
- c) Rs. 300
- d) None of these

25. The average monthly income of P and Q is Rs. 5050. The average monthly income of Q and R is Rs. 6250 and the average monthly income of P and R is Rs. 5200. The monthly income of P is:
- a) 3500
 - b) 4000
 - c) 4050
 - d) 5000

Data Interpretation

(Q.26-28) The following table shows the percentage profit (%) earned by two companies A and B during the years 2011-2015. Answer the questions based on the data contained in the table.

Profit Earned by Two Companies		
Year	Percentage profit %	
	A	B
2011	20	30
2012	35	40
2013	45	35
2014	40	50
2015	25	35

26. If the total expenditure of two companies was Rs 9 Lakh in the year 2012 and the expenditure of A and B were in the ratio 2:1, then what was the income of the company A in that year?
- a) Rs. 9.2 Lakh
 - b) Rs. 8.1 Lakh
 - c) Rs 7.2 Lakh
 - d) Rs. 6.0 Lakh

27. What is the average percentage profit earned by the company B?
- a) 35%
 - b) 42%
 - c) 38%
 - d) 40%

28. In which year, the percentage profit earned by the company B is less than that of company A?
- a) 2012
 - b) 2013
 - c) 2014
 - d) 2015

(Q. 29-31) Answer following questions based on the data contained in the table.

Sales Revenue (Rs. in Lakh)				
Items /Years	2012	2013	2014	2015
Journals	46	47	45	44
Magazines	31	39	46	51
Books	73	77	78	78
Total	150	163	169	173

29. In 2015, approximately what percent of total revenue came from books?
- a) 45%
 - b) 55%
 - c) 35%
 - d) 25%
30. The number of years in which there was an increase in revenue from at least two categories of items, is:
- a) 0
 - b) 1
 - c) 2
 - d) 3
31. If the year 2016 shows the same growth in terms of total sales revenue as the year 2015 over the year 2014, then the revenue in the year 2016 must be approximately:
- a) Rs. 194 Lakh
 - b) Rs. 187 Lakh
 - c) Rs. 172 Lakh
 - d) Rs. 177 Lakh

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Question Booklet Code:

A

Question Booklet Series No:

104577

Time Allowed: 150 Minutes

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Maximum Marks: 150

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- b) USA
- c) Japan
- d) Germany

118. UP has highest number of seats in the Lok Sabha. Which state has second highest number ?

- a) West Bengal
- b) Maharashtra
- c) Bihar
- d) Tamil Nadu

119. How many seats does UP contribute to the Lok Sabha?

- a) 80
- b) 85
- c) 75
- d) 82

120. Which among the following states does not contribute 40 or more seats in the Lok Sabha?

- a) Maharashtra
- b) Bihar
- c) West Bengal
- d) Tamil Nadu

ARITHMETIC

121. What should come in place of question mark in the following expression: $\frac{\sqrt[3]{?}}{2.56} = \frac{100}{?}$?

- a) 256
- b) 64
- c) 27
- d) 8

122. A boy was asked to multiply a number by 25, but by mistake he multiplied it by 45. If the answer was 200 more than the correct answer, then what was the number?

- a) 7
- b) 8
- c) 10
- d) 12

123. What is the difference in the place value of 5 in the numeral 754853 ?

- a) 49500
- b) 49950
- c) 45000
- d) 49940

124. What is the value of x in the expression:

$$\frac{36}{11} \times \frac{36}{11} - \frac{x}{11} \times \frac{12}{11} + \frac{25}{11} \times \frac{25}{11} = 1$$

- a) 150
- b) 125
- c) 100
- d) 50

125. What is the unit digit in the product of the expression: $853 \times 1346 \times 452 \times 226$?

- a) 8
- b) 6
- c) 5
- d) 3

126. The average age of three boys is 15 years. If the ratio of their ages is 3 : 5 : 7, then what is the age of the youngest boy ?

- a) 21 years
- b) 18 years
- c) 14 years
- d) 9 years

127. The difference between two positive numbers is 10 and the ratio between them is 5 : 3. What is the product of these two numbers?

- a) 375
- b) 250
- c) 175
- d) 125

128. What is the least number which leaves a remainder 5 when divided by 8, 12, 16 and 20 ?

- a) 235
- b) 240
- c) 245
- d) 265

129. After simplification, what is the value of the following expression:

$$\left(1 - \frac{1}{2}\right) \left(1 - \frac{1}{3}\right) \left(1 - \frac{1}{4}\right) \dots \dots \dots \left(1 - \frac{1}{100}\right) ?$$

- a) 0.001
- b) 0.01
- c) 0.1
- d) 1

130. What is the value of the expression:

$$12.8 - 0.4 \text{ of } (7.2 - 3.7) + 2.4 \times 3.02 ?$$

- a) 18.648
- b) 18.849
- c) 17.648
- d) 16.848

131. If the sum and difference of two numbers are 128 and 64, respectively, then what is their HCF (Highest Common Factor) ?

- a) 64
- b) 54
- c) 46
- d) 32

132. How many leap years are there from 1980 to 2002 ?

- a) 5
- b) 6
- c) 7
- d) 8

133. The speed of a boat upstream is 12 km/hr. If its speed downstream is 16 km/hr, then what is the speed of the boat in static stream ?

- a) 14 km/hr
- b) 12 km/hr
- c) 14 km/hr
- d) 15 km/hr

134. An alloy contains 14 parts of tin and 100 parts of copper. What is the percentage of tin in the alloy ?

- a) 10%
- b) 11%
- c) 11.75%
- d) 12.3%

135. If the product of two numbers is 60 and the sum of their squares is 169, then what is the sum of these two numbers?

- a) 17
- b) 15
- c) 19
- d) None of the above

136. In a 500 meters race, the ratio of the speeds of the two participants P and Q is 3 : 4. If P has a start of 140 meters, then P wins by:

- a) 40 meters
- b) 30 meters
- c) 20 meters
- d) 15 meters

137. The simple interest at the rate of $x\%$ for x years will be Rs. x on a sum of:

- a) Rs. $10x$
- b) Rs. $\frac{100}{x}$
- c) Rs. $100x$
- d) Rs. $\frac{100}{x^2}$

138. On a certain sum of money, compound interest of Rs. 318 is earned in 2 years. If the rate of compound interest is 12% per annum, then what is the principal amount ?

- a) Rs. 1,325
- b) Rs. 1,300
- c) Rs. 1,250
- d) Rs. 1,200

139. Vikas is twice as good workman as Mohan. When they work together, they can finish a task in 16 days. If Mohan works alone, then in how many days he will complete the task ?

- a) 46 days
- b) 48 days
- c) 50 days
- d) 52 days

140. A person sold a stove for Rs. 423 and incurred a loss of 6%. At what price would it be sold so as to earn a profit of 8% ?

- a) Rs. 486
- b) Rs. 490
- c) Rs. 500
- d) Rs. 550

141. Rohan is as much younger than Ajay as he is older than Meena. If the sum of ages of Ajay and Meena is 108 years, then how old is Rohan ?

- a) 32 years

- b) 36 years
- c) 54 years
- d) 64 years

142. Ram started a business and Shyam joined him after 2 months. Ram spent Rs.30,000 while Shyam spent Rs.45,000. Their one year profit came out to be Rs.54,000. What is the profit amount of Ram ?

- a) Rs.20,000
- b) Rs.24,000
- c) Rs.27,000
- d) Rs.30,000

143. The ratio of the present age of father to that of son is 7 : 2. After 10 years their ages will be in the ratio of 9 : 4. What is the present age of the father ?

- a) 35 years
- b) 40 years
- c) 43 years
- d) 45 years

144. A train passes a telegraph post in 8 seconds and a 264 meters long bridge in 20 seconds. What is the length of the train ?

- a) 180 meters
- b) 176 meters
- c) 164 meters
- d) 158 meters

145. What will be the increase in the area of an equilateral triangle, if its sides are increased by 20% ?

- a) 20%
- b) 25%
- c) 33%
- d) 44%

146. A two-digit number is four more than three times the sum of its digits. The number formed by reversing the digits is three more than seven times the sum of its digits. Find the difference between the digits?

- a) 3
- b) 5
- c) 2
- d) None of the above

147. If two coins are tossed simultaneously, then what is the probability of getting at least one tail ?

- a) $\frac{4}{5}$
- b) $\frac{3}{4}$
- c) $\frac{1}{4}$
- d) $\frac{1}{5}$

148. If 26th January, 1996 was a Friday, then what day of the week lies on 26th January, 1997 ?

- a) Sunday
- b) Saturday
- c) Monday
- d) Thursday

149. Two pipes X and Y can fill a tank in 12 hours and 36 hours, respectively. If both the pipes are opened simultaneously, then how much time will be required to fill the tank ?

- a) 6 hours
- b) 9 hours
- c) 12 hours
- d) 15 hours

150. The curved surface area of a cylindrical pillar is 264 sq. meters and its volume is 924 cubic meters. What is the ratio of its diameter to its height ?

- a) 7 : 6
- b) 3 : 7
- c) 7 : 3
- d) 6 : 7

11

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CPL - 2023

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Question Booklet Series No:

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SEAL

99. What task does Upen do?

- a) Mopping
- b) Laundry
- c) Sweeping
- d) Dusting

100. Which day does Salman does his task?

- a) Friday
- b) Thursday
- c) Tuesday
- d) Monday

ARITHMETIC

101. What is the value of the following expression:

$$[26 + \{42 \times (23 - 20) + 2 - (2 \times (5 \times 80 - 100)) + 16 - 4\}]?$$

- a) -434
- b) 434
- c) -443
- d) -453

102. What is the number when multiplied by 16 increases by 540 ?

- a) 30
- b) 36
- c) 42
- d) 46

103. What is the difference in the place value of 5 in the numeral 754853 ?

- a) 45000
- b) 49500
- c) 49940
- d) 49950

104. If two-third of three-fourth of a number is 34, then what is the value of 20% of that number ?

- a) 13
- b) 13.6
- c) 14
- d) 14.6

105. If $x = 0.84181$ is expressed as a fraction in the lowest terms, then the denominator exceeds the numerator by:

- a) 15803
- b) 18503
- c) 13580
- d) 10583

106. The approximate value of $0.4 \times 0.4 + 0.04 \times 0.04 + 0.04$ is:

- a) 0.16
- b) 0.20
- c) 0.38
- d) 0.46

107. The population of a town is decreasing at a rate of 10% per annum. If the population 2 years ago was 20,000, then what is the present population ?

- a) 15,000
- b) 15,200
- c) 16,000
- d) 16,200

108. Anil's salary was Rs.18,000. An increase of 20% each in two consecutive years is equal to a single increment of what percentage ?

- a) 22%
- b) 32%
- c) 40%
- d) 44%

109. A certain amount of money was invested on simple interest at a certain rate for 2 years. If it had been invested at 4% higher rate, then it would have fetched Rs.480 more, then what is the amount of money invested?

- a) Rs.6,500
- b) Rs.6,000
- c) Rs.5,600
- d) Rs.5,300

110. On lending a certain sum of money on compound interest, one gets Rs.9050 in 2 years and Rs.9500 in 3 years. What is the rate of interest (approximately)?

- a) 6%
- b) 5.5%
- c) 5%
- d) 4.5%

111. X's and Y's shares in a business are in the ratio of 5 : 3. If X has invested Rs.70,000 for 12 months, then for what period of time Y has invested Rs.60,000 ?

- a) 6.4 months
- b) 7.4 months
- c) 8.4 months
- d) 9.4 months

112. The sum of the present age of mother and her son is 60 years. Six years ago, the age of the mother was five times the age of her son. What will be the age of her son after 6 years?

- a) 23 years
- b) 22 years
- c) 21 years
- d) 20 years

113. The day on 5th April of a year will be the same day on 5th of which month of the same year?

- a) 5th June
- b) 5th July
- c) 5th August
- d) 5th October

114. A man swims 12 km downstream and 10 km upstream. If he takes 2 hours each time, then what is the speed of the stream?

- a) 1.5 km/hr.
- b) 1.7 km/hr.
- c) 0.7 km/hr.
- d) 0.5 km/hr.

115. How many times the hands of a clock coincide in a day (or 24 hours)?

- a) 24
- b) 23
- c) 22
- d) 21

116. Sachin scored a century which included 3 fours and 8 sixes. As a result, what percentage of his total score did Sachin score by running between the wickets?

- a) 40
- b) 45
- c) 50
- d) 55

117. A pipe can fill a tank in 6 hours and another pipe can empty the tank in 12 hours. If both the pipes are opened at the same time, then the tank can be filled in how many hours?

- a) 10 hours
- b) 12 hours
- c) 14 hours
- d) 16 hours

118. A man purchases a TV for Rs.8,000 and sells it at 10% loss. What is the selling price of the T.V.?

- a) Rs.7,200
- b) Rs.7,000
- c) Rs.6,900
- d) Rs.6,500

119. A car takes 2 hours to reach a destination by travelling at the speed of 60 km/hr. How long (in hours) will it take when the car travels at the speed of 80 km/hr?

- a) $1\frac{1}{4}$
- b) $1\frac{1}{2}$
- c) $1\frac{1}{3}$
- d) $1\frac{2}{5}$

120. A train is moving at 120 km/hr. The length of the train is 150 meters. How long it will take to cross a platform of length 100 meters?

- a) 7.5 seconds.
- b) 10 seconds.
- c) 20 seconds.
- d) 25 seconds.

121. P can do a job in 12 days and Q can do the same job in 10 days. With the help of R, they can do the same job in 4 days. In how many days R alone can do this job?

- a) 12 days.
- b) 13 days.
- c) 14 days.
- d) 15 days.

122. A shopkeeper mixes 60 kg of sugar priced Rs.30 per kg with 90 kg of sugar priced Rs.40 per kg. At what rate he must sell the mixture to gain 20%?

- a) Rs.30 per kg.
- b) Rs.34 per kg.
- c) Rs.38 per kg.
- d) Rs.43.2 per kg.

123. If $(\sqrt{3})^5 \times 9^2 = 3^x \times 3\sqrt{3}$, then x equals to :

- a) 3
- b) 4
- c) 5
- d) 6

124. The LCM of two prime numbers x & y is 161. If $x > y$, then the value of $15y - 7x$ is:

- a) -32
- b) -56
- c) 38
- d) 74

125. A blanket, when bleached, decreases in length by 20% and in breadth by 15%. What is the percentage decrease in its area ?

- a) 32%
- b) 35%
- c) 42%
- d) 45%

126. A bag contains Rs.410 in the form of Rs.5, Rs.2 and Re.1 coins. If the number of coins is in the ratio 4 : 6 : 9 respectively, then what is the number of 2 rupees coins ?

- a) 40
- b) 50
- c) 60
- d) 70

127. In a 100 meters race, P covers the distance in 36 seconds and Q covers in 45 seconds. In this race, P beats Q by:

- a) 9 meters.
- b) 20 meters.
- c) 22.5 meters.
- d) 25 meters.

128. How many numbers from 1 to 20 are either a multiple of 3 or 5 ?

- a) 9
- b) 8
- c) 6
- d) 5

129. What is the length of the longest rod that can be placed in a room 30 meters long, 24 meters broad and 18 meters high ?

- a) 30 meters.
- b) $15\sqrt{2}$ meters.
- c) $30\sqrt{2}$ meters.
- d) 60 meters.

130. The numerator of a fraction is 3 less than the denominator. If the numerator be made 3 times and 20 is added to the denominator, the fraction becomes $\frac{1}{8}$. What is the fraction?

- a) $\frac{1}{4}$
- b) $\frac{2}{5}$
- c) $\frac{5}{8}$
- d) $\frac{4}{7}$

131. IPv4 address is:

- a) 8 bit
- b) 16 bit
- c) 32 bit
- d) 64 bit

132. Which of the following is used to create or design a web page?

- a) HTML
- b) HTTP
- c) PPP
- d) WWW

133. An identifier that sends and receives information across the Internet is called:

- a) IP address
- b) www
- c) Network
- d) URL

134. What is the full form of NIC?

- a) Network Interconnection Card
- b) Network Internet Card
- c) Network Interface Card
- d) Network Intra Card

135. Which view allows to modify table's structure in Access?

- a) Design view
- b) Datasheet view
- c) Pivot table view
- d) Pivot Chart view

136. Which key stroke moves the active cell towards left in Access table?

- a) F2
- b) F5
- c) Tab
- d) Shift + Tab

137. Which combination of key zooms the content of active cell in Access table?

- a) Ctrl + F2
- b) Ctrl + F5
- c) Shift + F2
- d) Shift + F5

138. In MS Access, form dialog may be created using _____ menu.

- a) Create>More Forms>Form Wizard
- b) Create>More Forms>Data Sheet

12

14.07.2024

ATO - 2024

30

SRMN-2023

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

C

Question Booklet Series No:

108999

Time Allowed: 150 Minutes

Total Questions: 150

Maximum Marks: 150

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers

Before answering any question, check the booklet that it contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

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2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
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SEAL

SRMN_ENG_C-1



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49. Who is the present Chief Minister of Manipur?

- a) Okram Ibobi Singh
- b) N. Biren Singh
- c) Radhavinod Koljam
- d) N. Nimmacha Singh

50. Name the athlete who set a new national record (subjected to ratification by AFI) of 13 minute 18.92 seconds in Men's 1500 Meter race in June 2024.

- a) Jinson Johnson
- b) Gulveer Singh
- c) Parvej Khan
- d) Ajay Kumar Saro

51. Who is the Prime Minister of Italy?

- a) Giorgia Meloni
- b) Mario Draghi
- c) Giuseppe Conte
- d) Paolo Gentiloni

52. Which among the following countries reached semi final of T20 World Cup in June 2024?

- a) Australia
- b) Pakistan
- c) New Zealand
- d) Afghanistan

53. There were massive street protests in Kenya during the second fortnight of June 2024 resulting in burning of Parliament building. What were they protesting against?

- a) Hike in taxes
- b) Ethnic Unrest
- c) Immigration from neighbouring countries.
- d) Loss in Football Match

54. What was the size of Electorate for 2024 General Election for India?

- a) 968.8 million
- b) 896.2 million
- c) 922.9 million
- d) 947.7 million

55. Who is Chair of Board of Governors of International Atomic Energy Agency for 2023-24?

- a) Mr Holger Federico Martensen
- b) Mr Ivo Sramer
- c) Ms Emilia Kraleva
- d) Mr Peter Portman

56. Who is the Cabinet Minister in Union Govt. in charge of Ministry of Cooperation?

- a) Shri Jagat Prakash Nadda
- b) Shri Shivraj Singh Chouhan
- c) Shri Amit Shah
- d) Shri Manohar Lal

57. Who is the Cabinet Minister in Union Govt. in charge of Ministry of Road Transport and Highway?

- a) Shri H.D Kumaraswamy
- b) Shri Nitin Gadkari
- c) Shri Piyush Goyal
- d) Shri Sarbananda Sonowal

58. Who is the Cabinet Minister in Union Govt. in charge of Ministry of Health and Family Welfare?

- a) Dr. Virendra Kumar
- b) Shri Jagat Prakash Nadda
- c) Dr. Mansukh Mandaviya
- d) Shri Prahlad Joshi

59. Who is the Cabinet Minister of Department of Agriculture and Farmers' Empowerment of Odisha Government?

- a) Shri Kanak Vardhan Singh Deo
- b) Smt. Pravati Parida
- c) Shri Suresh Pujari
- d) Shri Rabinarayan Naik

60. Who is the Cabinet Minister of Department of Mission Shakti of Odisha Government?

- a) Shri Kanak Vardhan Singh Deo
- b) Smt. Pravati Parida
- c) Shri Suresh Pujari
- d) Shri Rabinarayan Naik

Arithmetic

61. If the average of three consecutive even numbers is 34, then what is the largest of these numbers?

- a) 30
- b) 32
- c) 34
- d) 36

62. Consider a three digit number $7x2$, where x is the missing digit. For what value of x , the number is divisible by 6?

- a) 7
- b) 4
- c) 5
- d) 6

63. What is the compound interest on Rs.2,500 for 2 years, if the rate of compound interest is 4% per annum?

- a) Rs.180
- b) Rs.204
- c) Rs.210
- d) Rs.220

64. Raju started a business with Rs.900. Kamal joined him after few months with an amount of Rs.600. If the profits at the end of the year were divided in the ratio of 2 : 1 between Raju and Kamal,

then after how many months did Kamal join the business ?

- a) 3 months
- b) 5 months
- c) 7 months
- d) 9 months

65. What is the number whose 35% is 280?

- a) 700
- b) 750
- c) 800
- d) 850

66. If the operation \star is defined by

$$x \star y = x + y + xy,$$

then what is the value of

$$3 \star 4 - 2 \star 3 ?$$

- a) 6
- b) 8
- c) 10
- d) 12

67. If $(25)^{7.5} \times 5^{2.5} \div (125)^{1.5} = 5^x$, then the value of x is:

- a) 13
- b) 15
- c) 17
- d) 18

68. Two numbers are in the ratio 3 : 4. If their LCM is 240, then what is the smallest of these two numbers ?

- a) 80
- b) 70
- c) 60
- d) 50

69. In a 100 meters race, P beats Q by 10 meters and R by 13 meters. In a race of 180 meters, Q will beat R by:

- a) 4.5 meters
- b) 5 meters
- c) 5.5 meters
- d) 6 meters

70. In a school having roll strength 286, the ratio of boys and girls is 8 : 5. If 22 more girls get admitted to the school, then what will be the ratio of boys and girls in the school ?

- a) 4 : 3
- b) 6 : 5
- c) 8 : 7
- d) 10 : 7

71. 20 buckets can fill a tank and the capacity of each bucket is 12 liters. How many buckets will be

required to fill the tank, if the capacity of each bucket is 10 liters?

- a) 22
- b) 24
- c) 27
- d) 30

72. If the cost price of 120 mangoes is equal to the selling price of 100 mangoes, then what is the profit percent in this transaction?

- a) 15%
- b) 17%
- c) 20%
- d) 21%

73. If X lends Rs.4,500 to Y at 8% simple interest per annum and Y lends the same sum to Z at 10% simple interest per annum, then what is the gain of Y in a period of 3 years ?

- a) Rs.220
- b) Rs.240
- c) Rs.250
- d) Rs.270

74. A train of length 200 meters crosses a man running at 10 km/hr in the same direction in 10 seconds. What is the speed of the train?

- a) 72 km/hr.
- b) 82 km/hr.
- c) 85 km/hr.
- d) 95 km/hr.

75. The ratio of the age of Seeta and Geeta is 2:7. After 6 years, the ratio of their age will be 1 : 2. What is the difference in their present age?

- a) 8 years
- b) 9 years
- c) 10 years
- d) 11 years

76. If January 1, 1996 was Monday, then what day of the week was January 1, 1997?

- a) Wednesday
- b) Thursday
- c) Friday
- d) Sunday

77. A car moving at a speed of 75 km/hr covers certain distance in 2 hours. If its speed is reduced by 15 km/hr, then in what time will it cover the same distance?

- a) 125 minutes
- b) 135 minutes
- c) 140 minutes
- d) 150 minutes

78. What is the value of the following expression:
 $10000 [(0.01)^2 + (0.22)^2 + 2 (0.01) (0.22)]$

- a) 576
- b) 625
- c) 529
- d) 484

79. X can do a job in 12 days and Y can do the same job in 10 days. With the help of Z, they can do the same job in 4 days. In how many days Z alone can do this job?

- a) 15 days
- b) 14 days
- c) 13 days
- d) 12 days

80. 700 ml of a mixture contains water and milk in the ratio 2 : 8. How much water must be added to the mixture so that the ratio of water and milk becomes 3:8?

- a) 75 ml
- b) 70 ml
- c) 65 ml
- d) 60 ml

81. What is the least multiple of 7 which when divided by 6, 9, 15 and 18, respectively, leaves 3 as the remainder in each case?

- a) 255
- b) 266
- c) 364
- d) 385

82. If the length of each side of a square is increased by 50%, then what will be the ratio between the new area and the original area of the square?

- a) 9 : 4
- b) 5 : 4
- c) 4 : 9
- d) 4 : 5

83. The dimensions of a hall are 40 meters, 25 meters and 20 meters, respectively. Some containers need to be kept in the hall. If each container requires 200 cubic meters, then how many containers can be accommodated in the hall?

- a) 150
- b) 140
- c) 120
- d) 100

84. If the curved surface area of a sphere is same as the curved surface area of a hemi-sphere, then what is the radius of the hemisphere?

- a) Same as that of the sphere
- b) $\sqrt{2}$ times that of the sphere.
- c) $\sqrt{3}$ times that of the sphere.
- d) 2 times that of the sphere.

85. An accurate clock shows 8 O'clock in the morning. How many degrees will the hourhand rotate when the clock shows 2 O'clock in the afternoon?

- a) 144°
- b) 150°
- c) 168°
- d) 180°

86. What is the unit's digit in the expression:

$$71 \times 29 + 27 \times 15 + 8 \times 4 ?$$

- a) 8
- b) 6
- c) 4
- d) 0

87. In a group of 10 girls, 5 of them have an average height of 5.2 feet. Rest of the 5 girls have an average height of 1.7 metres. What is the average height of the group in feet?(1 metre = 3.281 feet.)

- a) 5.48
- b) 5.38
- c) 5.27
- d) 5.19

88. If 20% of a number is 120, then 112% of that number is:

- a) 692
- b) 672
- c) 662
- d) 652

89. A number when divided by 91 leaves a remainder 65. If the same number is divided by 13, then what is the remainder?

- a) 12
- b) 7
- c) 5
- d) 0

90. Today is Wednesday. What day of the week will be 81st day from today, if tomorrow is counted as 1st?

- a) Thursday
- b) Tuesday
- c) Sunday
- d) Saturday

13

21-07-2024

CHSL - 2024

35

Do not open the Seal of the Question Booklet until you are asked to

DSM-2024

Question Booklet Code:

A

Question Booklet Series No:

181921

Time Allowed: **120 Minutes**

Total Questions: **150**

Maximum Marks: **150**

There shall be negative marking @ **0.25 mark** per question for wrong/multiple answers

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SEAL

Arithmetic

1. The purchase price of an article is 20% less than the profit made. What would be the profit, if the selling price is Rs.360 ?

- a) Rs.160
- b) Rs.180
- c) Rs.200
- d) Rs.240

2. Three pipes P1, P2, P3 can fill a tank in 50 minutes, 120 minutes & 60 minutes, respectively. If all the pipes are opened together, how much time will it take to fill 27% of the tank?

- a) 10 minutes.
- b) 6 minutes.
- c) 4 minutes.
- d) 2 minutes.

3. A group of 5 men or 12 women can do a task in 78 days. How much time is required by 5 men and 12 women to complete the task ?

- a) 39 days.
- b) 36 days.
- c) 29 days.
- d) 26 days.

4. A train running at 120 km/hr crosses a pole in 9 seconds. What is the length of the train?

- a) 240 meters.
- b) 270 meters.
- c) 300 meters.
- d) 320 meters.

5. A mixture contains milk and water in the ratio 5:9. When 5 liters of water is added, the ratio changes to 5:11. What is the quantity of milk in the initial mixture?

- a) 11 liters
- b) 11.5 liters
- c) 12 liters
- d) 12.5 liters

6. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes polled was 7,500, then what is the number of valid votes in favour of the other candidate ?

- a) 2,500
- b) 2,700
- c) 2,900
- d) 3,100

7. The speed of a boat upstream is 20 km/hr. If the speed of the stream is 3 km/hr, then what is the speed of the boat downstream ?

- a) 26 km/hr.
- b) 25 km/hr.
- c) 23 km/hr.
- d) 22 km/hr.

8. The selling price of 5 shares is equal to the cost price of 3 shares. What is the profit or loss percentage ?

- a) 40% loss
- b) 40% profit
- c) 20% loss
- d) 20% profit

9. P and Q invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and P's share is Rs.855, then what is the total profit ?

- a) 500
- b) 1000
- c) 1500
- d) 2000

10. Two numbers are respectively 20% and 50% more than a third number. What is the ratio of these two numbers ?

- a) 2 : 5
- b) 3 : 5
- c) 4 : 5
- d) 5 : 4

11. A triangle and a parallelogram are constructed on the same base such that their areas are equal. If the altitude of the parallelogram is 50 cm, then what will be the altitude of the triangle ?

- a) 50 cm
- b) 100 cm
- c) 110 cm
- d) 125 cm

12. Travelling at $\frac{1}{6}$ th of his usual speed, a man is late by 30 minutes. What will be the usual time taken by the man to cover the same distance ?

- a) 5 minutes.
- b) 5.25 minutes.
- c) 5.50 minutes.
- d) 6 minutes.

13. A mixture containing 50% of milk is mixed with another mixture containing $x\%$ of milk in equal proportions. If the mixture so formed contains 45% of milk, then what is the value of x ?

- a) 40
- b) 30
- c) 20
- d) 10

14. What is the average of first 37 natural numbers?

- a) 19
- b) 21
- c) 23
- d) 27

15. If the side of an equilateral triangle is doubled, then by how many times is its area increased?

- a) 2
- b) 4
- c) 8
- d) 16

16. At what rate of compound interest per annum will a sum of Rs.1,200 becomes Rs.1,348.32 in 2 years?

- a) 6%
- b) 6.5%
- c) 7%
- d) 7.5%

17. A tank can be filled in 10 hours. After a leak in its bottom, it takes 12 hours to fill the tank. What would be the time required by the leak to empty the full tank?

- a) 45 hours
- b) 50 hours
- c) 55 hours
- d) 60 hours

18. A clock is set at 4 AM. It loses 16 minutes in 24 hours. What will be the correct time, when the clock indicates 9 PM on the 4th day?

- a) 11 PM
- b) 10 PM
- c) 9 PM
- d) 8 PM

19. What is the value of $(25.732)^2 - (15.732)^2$?

- a) 414.64
- b) 414.52
- c) 414.256
- d) 414.128

20. The value of $(256)^{0.16} \times (256)^{0.09}$ is:

- a) 64
- b) 16
- c) 8
- d) 4

21. Let $x : y = 4 : 7$ and $y : z = 9 : 7$. If $x = 72$, then what is the value of z ?

- a) 98
- b) 77
- c) 63
- d) 49

22. What is 90% of 90%?

- a) 18%
- b) 81%
- c) 60%
- d) 63%

23. The average of Sohan's marks in 6 subjects is 74. If his average in 5 subjects excluding science is 70, then how many marks has he obtained in science?

- a) 94
- b) 92
- c) 90
- d) 88

24. If the total ages of Iqbal and Shikhar is 12 years more than the total age of Shikhar and Charu, then Charu is how many years younger than Iqbal?

- a) 11 years
- b) 12 years
- c) 14 years
- d) 15 years

25. A father is twice as old as his daughter. If 20 years ago the age of the father was 10 times the age of the daughter, then what is the present age of the father?

- a) 22 years
- b) 32 years
- c) 37 years
- d) 45 years

26. If Suresh borrows Rs.36,000 from Mahesh at the rate of 6% simple interest, then what is the total amount that Suresh has to pay at the end of 4 years?

- a) Rs.42,960
- b) Rs.33,560
- c) Rs.43,960
- d) Rs.44,640

27. What is the interest on Rs.2,500 for 2 years at rate of 4% compound interest per annum?

- a) Rs.180
- b) Rs.195
- c) Rs.204
- d) Rs.210

28. P, Q and R are partners. They have invested Rs.35,000, Rs.25,000 & Rs.10,000 respectively for the same period. If the total profit is Rs.18,000, then what is the profit share of P?

- a) Rs.9,500
- b) Rs.9,000
- c) Rs.8,500
- d) Rs.8,000

29. A pipe can fill a tank in 6 hours and another pipe can empty the tank in 12 hours. If both the pipes are opened at the same time, then in how many hours the tank can be filled?

- a) 6 hours
- b) 10 hours
- c) 12 hours
- d) 14 hours

30. A shopkeeper sold an article for Rs.2,500. If the cost price of the article is Rs.2,000, then what is the profit percent?

- a) 29%
- b) 28%
- c) 26%
- d) 25%

31. A running man crosses a bridge of length 500 meters in 4 minutes. At what speed the man was running?

- a) 9.5 km/hour
- b) 8.5 km/hour
- c) 7.5 km/hour
- d) 6.5 km/hour

32. A train moving at a speed of 90 kmph crosses a pole in 6 seconds. What is the length of the train?

- a) 150 meters.
- b) 165 meters.
- c) 170 meters.
- d) 175 meters

33. P, Q, R can do a job in 10, 20 and 40 days, respectively. In how many days P can complete the job, if he is assisted by Q and R on every third day?

- a) 9 days
- b) 8 days
- c) 7 days
- d) 6 days

34. A 20 litres of mixture contains 30% alcohol and 70% water. If 5 litres of water is added to the mixture, then what will be the percentage of alcohol in the new mixture?

- a) 22%
- b) 23%
- c) 24%
- d) 25%

35. A man rows downstream at 20 km/hr and rows upstream at 15 km/hr. At what speed can he row in still water?

- a) 17.5 km/hr
- b) 18 km/hr
- c) 20.5 km/hr
- d) 22 km/hr

Data Interpretation

Directions (Ques. Nos.36-40): Consider the following table and answer the questions based on the data given in the table.

Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	9

36. What is the average amount of interest on loans per annum which the company had to pay during the period (1998 to 2002)?

- a) Rs.32.43 lakhs
- b) Rs.33.72 lakhs
- c) Rs.34.18 lakhs
- d) Rs.36.66 lakhs

37. The total amount of bonus paid by the company during the given period is approximately what percentage of the total amount of salary paid during this period?

- a) 0.75%
- b) 1.0%
- c) 1.25%
- d) 1.5%

17

04.08.2024

GL Special

35

LMBU-2023

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

B

Question Booklet Series No:

112158

Time Allowed: **120 Minutes**

Total Questions: **150**

Maximum Marks: **150**

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2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, docupen, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
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SEAL

LMBU_ENG_B-1

ARITHMETIC

14. In Microsoft Access, what is the shortcut key combination to open the Lookup wizard for a selected field in Design view?
- a) F2
 - b) F4
 - c) Ctrl + F4
 - d) Ctrl + L
15. What is the shortcut key combination to delete the current record in Datasheet view in MS-Access?
- a) Ctrl + D
 - b) Ctrl + Del
 - c) Ctrl + -
 - d) Ctrl + X
16. In Access, what does the "Parameterized Query" feature enable you to do?
- a) Perform calculations on fields in a query
 - b) Prompt the user to enter criteria when running the query
 - c) Join multiple tables based on common fields
 - d) Update records in a table based on specified conditions
17. In email terminology, what does "DNS" stand for?
- a) Domain Name System
 - b) Digital Network Service
 - c) Data Naming Standard
 - d) Dynamic Network Server
18. Which type of email attack involves sending fraudulent emails that appear to be from reputable sources to deceive individuals into revealing sensitive information?
- a) Phishing
 - b) Spoofing
 - c) Malware
 - d) Spamming
19. What is the purpose of an email "signature" in the context of email communication?
- a) To encrypt the email message
 - b) To provide additional security layers
 - c) To authenticate the sender
 - d) To automatically append contact information or a personalized message at the end of an email
20. Which email header field is used to indicate the sender's email address?
- a) From
 - b) To
 - c) Subject
 - d) CC (Carbon Copy)

21. A certain number when divided by 899 leaves the remainder 63. Find the remainder when the same number is divided by 29?
- a) 5
 - b) 4
 - c) 1
 - d) Cannot be determined
22. What approximate value will come in place of question mark (?) in the equation given below?
- $$(41.99^2 - 18.04^2) - ? = 13.11^2 - 138.99$$
- a) 4004
 - b) 1720
 - c) 1410
 - d) 8432
23. Sum of A's and B's age 12 years ago was 176. A's age 36 years ago was equal to B's age 12 years ago. Find the present age of A?
- a) 112 years
 - b) 128 years
 - c) 84 years
 - d) 104 years
24. In a class there are 35 girls and 20 boys. Total average weight of class is 38 kg. Total average weight of boys is 52 kg. Find the average weight of girls?
- a) 32 kg
 - b) 30 kg
 - c) 52 kg
 - d) 35 kg
25. What should come in place of question mark (?) in the following number series?
- 13, 15, 25, 55, 123, ?
- a) 234
 - b) 293
 - c) 253
 - d) 208
26. A sequence of seven consecutive integers is given. The average of the first five given integers is 37. Find the average of all the seven integers.
- a) 35
 - b) 38
 - c) 40
 - d) 41

27. The Salary of a worker is first increased by 5% and then it is decreased by 5%. What is the overall change in his salary compared to original salary?

- a) 0.25% increase
- b) 0.5% increase
- c) 0.25% decrease
- d) 0.5% decrease

28. If 3.5% of income is taken as tax and 12.5% of the remaining is saved, this leaves ₹ 4053 to spend. What is the income?

- a) ₹ 4500
- b) ₹ 4900
- c) ₹ 4800
- d) ₹ 5000

29. Two numbers are in the ratio 3 : 5. If 9 is subtracted from each, the ratio becomes 12 : 23. Find the greater number.

- a) 85
- b) 115
- c) 55
- d) 35

30. Saurav, Dolly and Dimple subscribe together ₹50,000 for a business. Saurav subscribes ₹4000 more than Dolly and Dolly ₹5000 more than Dimple. Out of a total profit of ₹ 35,000 Saurav receives:

- a) ₹ 7300
- b) ₹ 14700
- c) ₹ 12600
- d) ₹ 9250

31. A dishonest dealer professes to sell his goods at cost price, but he uses a weight of 960g for the kg weight. Find his gain percent.

- a) 4 %
- b) $4\frac{1}{6}$ %
- c) 4.5 %
- d) 4.9 %

32. If the Cost Price of 15 tables is equal to the Selling Price of 20 tables, find the loss percentage.

- a) 25%
- b) 20%
- c) 40%
- d) 15%

33. The difference between Compound Interest and Simple Interest for 2 years at the rate of 12% per annum on ₹5000 will be:

- a) ₹ 47.50
- b) ₹ 63

- c) ₹ 72
- d) ₹ 45

34. Akash is half good a workman as Bimal and together they finish a job in 14 days. In how many days working alone will Bimal finish the job?

- a) 21 days
- b) 25 days
- c) 28 days
- d) 18 days

35. Five men prepare 10 toys in 6 days working 6 hrs a day. Then, in how many days can 12 men prepare 16 toys working 8 hrs a day?

- a) 3 days
- b) 4 days
- c) 5 days
- d) 6 days

36. If 6 men working 8 hours a day earn ₹ 1680 per week, then how much will 9 men working 6 hours a day earn per week?

- a) ₹ 1740
- b) ₹ 1890
- c) ₹ 2050
- d) ₹ 2230

37. A boy walking at a speed of 10km/hr reaches his school 12 minutes late. Next time, at a speed of 15km/hr he reaches his school 7 minutes late. Find the distance of his school from his house.

- a) 1 km
- b) 1.5 km
- c) 2 km
- d) 2.5 km

38. Two cyclists A and B start from the same place to ride in the same direction. A starts at noon at 8 km/hr and B at 1:30pm at 10km/hr. How far will A have ridden before he is overtaken by B?

- a) 40km
- b) 50km
- c) 60km
- d) 70km

39. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case.

- a) 4
- b) 7
- c) 9
- d) 13

40. A boat can travel at a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream.

- a) 2 hours
- b) 3 hours
- c) 4 hours
- d) 5 hours

41. In a 200 metres race A beats B by 35 m or 7 seconds. A's time over the course is:

- a) 40 sec
- b) 47 sec
- c) 33 sec
- d) 35 sec

42. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?

- a) 20 hours
- b) 25 hours
- c) 35 hours
- d) 30 hours

43. A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 18% profit is:

- a) 400 kg
- b) 560 kg
- c) 600 kg
- d) 640 kg

44. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:

- a) 588 apples
- b) 600 apples
- c) 672 apples
- d) 700 apples

45. The salaries A, B, C are in the ratio 2 : 3 : 5. If increments of 15%, 10% and 20% respectively are allowed in their salaries, then what will be new ratio of their salaries?

- a) 3 : 3 : 10
- b) 10 : 11 : 20
- c) 23 : 33 : 60
- d) Cannot be determined

46. There is 60% increase in an amount in 6 years at simple interest. What will be the compound interest of Rs. 12,000 after 3 years at the same rate?

- a) Rs. 2160
- b) Rs. 3120
- c) Rs. 3972
- d) Rs. 6240

47. A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is:

- a) 45 km/hr
- b) 50 km/hr
- c) 54 km/hr
- d) 55 km/hr

48. A man has Rs.480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?

- a) 45
- b) 60
- c) 75
- d) 90

49. In a regular week, there are 5 working days and for each day, the working hours are 8. A man gets Rs. 2.40 per hour for regular work and Rs. 3.20 per hour for overtime. If he earns Rs. 432 in 4 weeks, then how many hours does he work for?

- a) 160
- b) 175
- c) 180
- d) 195

50. The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs. 4000. The total price of 12 chairs and 3 tables is:

- a) Rs. 3500
- b) Rs. 3750
- c) Rs. 3840
- d) Rs. 3900

51. If you write down all the numbers from 1 to 100, then how many times do you write 3 ?

- a) 11
- b) 18
- c) 20
- d) 21

52. The length of a rectangular plot is 20 metres more than its breadth. If the cost of fencing the plot at the rate of Rs. 26.50 per metre is Rs.5,300, what is the length of the plot (in metres)?

- a) 40
- b) 50
- c) 60
- d) Data inadequate

53. A 240 metre long train running at the speed of 60 kmph will take how much time to cross another

270 metre long train running in opposite direction at the speed of 48 kmph?

- a) 17 seconds
- b) 3 seconds
- c) 12 seconds
- d) 8 seconds

54. What should come in place of the question mark "?" in the following number series ?

722, 363, 124, 35, ?, 8

- a) 18
- b) 10
- c) 32
- d) 12

55. The difference between the digits of a two-digit number is one-ninth of the difference between the original number and the number obtained by interchanging the positions of the digit. What definitely is the sum of digits of that number?

- a) 5
- b) 14
- c) 12
- d) Data inadequate

DATA INTERPRETATION

Directions (Questions 56 to 60): Answer these questions on the basis of the information given below.

In a class of 80 students, girls and boys are in the ratio of 3 : 5. The students can speak only Hindi or only English or both Hindi and English. The number of boys and number of girls who can speak only Hindi is equal and each of them is 40% of the total number of girls. 10% of the girls can speak both the languages and 58% of the boys can speak only English.

56. How many girls can speak only English?

- a) 12
- b) 29
- c) 18
- d) 15

57. In all, how many boys can speak Hindi?

- a) 12
- b) 9
- c) 24
- d) None of these

58. What percentage of all the students (boys and girls together) can speak only Hindi?

- a) 24
- b) 40
- c) 50
- d) 30

59. In all, how many students (boys and girls together) can speak both the languages?

- a) 15
- b) 12
- c) 9
- d) 29

60. How many boys can speak either only Hindi or only English?

- a) 25
- b) 38
- c) 41
- d) 29

Directions (Questions 61 to 65): Study the following information carefully and answer the questions given below.

The given table shows the number of boys living on first, second and third floors in five different buildings (Some data is missing).

Buildings	First Floor	Second Floor	Third Floor
P	60	80	60
Q	90	105	120
R	150	75	75
S	90	90	50
T	105	60	105

61. If the average number of boys living in Q is 105 and the ratio of the number of boys living on first to third floor in Q is 3:4, then find the difference between the number of boys living in first and second floor in Q?

- a) 12
- b) 9
- c) 15
- d) 35

62. If the total number of boys living in P and R is 200 and 300 respectively, then find the average number of boys living on second floor in all the buildings together.

- a) 78
- b) 68
- c) 80
- d) 82

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6.10.2024

Statistical Assistant

25

ASAT-202

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

C

Question Booklet Series No:

116559

Time Allowed: 90 Minutes

Total Questions: 100

Maximum Marks: 100

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers

Before answering any question, check the booklet that it contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

1. Fill in the OMR answer sheet, mentioning the Roll No. and other data as required in the place(s) indicated therein. Darken the appropriate circles in blue or black ball point pen only. Do not write any name / surname or put any symbol, sign, slogan, prayer or any mark of identification in the OMR answer sheet. Do not tamper with the bar-code or any other portion of the OMR answer sheet. Any such act is liable to render the answer sheet unfit for evaluation.
2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
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8. Failure to comply with or violation of any of the above instructions shall be considered as adopting unfair means and action as deemed proper shall be taken.

SEAL

If the statements I and II are true, then statement III will be:

- a) True
- b) Uncertain
- c) False
- d) None of the above

ARITHMETIC

46. The sum of two numbers is 55. If the H.C.F. and the L.C.M. of these numbers are 5 and 120, respectively, then the sum of the reciprocals of these two numbers is equal to:

- a) $\frac{55}{601}$
- b) $\frac{601}{55}$
- c) $\frac{55}{120}$
- d) $\frac{11}{120}$

47. A number consists of two digits. If the digits interchange places and the new number is added to the original number, then the resulting number will be divisible by:

- a) 11
- b) 9
- c) 5
- d) 3

48. The average monthly income of P and Q is Rs. 5,050. The average monthly income Q and R is Rs. 6,250 and the average monthly income of P and R is Rs. 5,200. Then what is the monthly income of P ?

- a) Rs.3,500
- b) Rs.4,000
- c) Rs.4,050
- d) Rs.5,000

49. What is the angle between the minute hand and the hour hand of a clock, when the time is 8.30 ?

- a) 105°
- b) 80°
- c) 75°
- d) 60°

50. P fires 5 shots to Q's 3 shots, but P kills a bird only once in 3 shots, while Q kills a bird once in 2 shots. When Q has missed 27 times, then the number of birds killed by P is:

- a) 30 birds
- b) 60 birds
- c) 72 birds
- d) 90 birds

51. What is the sum of all odd integers between 2 and 100 which are divisible by 3 ?

- a) 768
- b) 786
- c) 867
- d) 876

52. If the edge of a cube is increased by 30%, then what is the percentage of increase in its surface area?

- a) 71%
- b) 69%
- c) 60%
- d) 33%

53. How many times does the volume of a sphere increase, if its radius is doubled?

- a) 8 times
- b) 6 times
- c) 4 times
- d) 2 times

54. Three partners shared the profit in a business in the ratio 5 : 7 : 8. They had partnered for 14 months, 8 months and 7 months, respectively. What was the ratio of their investments?

- a) 5 : 7 : 8
- b) 20 : 49 : 64
- c) 38 : 28 : 21
- d) 14 : 13 : 25

55. P, Q, R can do a piece of work in 20, 30 and 60 days, respectively. In how many days can P do the work, if he is assisted by Q and R on every third day?

- a) 12 days
- b) 14 days
- c) 15 days
- d) 17 days

56. 100 oranges are bought at the rate of Rs.350 and sold at the rate of Rs.48 per dozen. The percentage of profit or loss is:

- a) $14\frac{2}{7}\%$ profit
- b) $14\frac{2}{7}\%$ loss
- c) 15% profit
- d) 15% loss

57. In how many different ways can the letters of the word "DETAIL" be arranged in such a way that the vowels occupy only the odd positions ?

- a) 60
- b) 48
- c) 40
- d) 36

58. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75%, respectively. What will be the ratio of increased seats?

- a) 6 : 7 : 8
- b) 6 : 8 : 9
- c) 2 : 3 : 4
- d) 1 : 5 : 8

59. If a rectangular bin of 4 ft. long, 3 ft. wide and 2 ft. height is solidly packed with bricks whose dimensions are 8 inch by 4 inch by 2 inch, then the number of bricks in the bin is:

- a) 286
- b) 368
- c) 584
- d) 648

60. If 3 pumps, working 8 hours a day can empty a tank in 2 days, then how many hours a day must 4 pumps work to empty the tank in 1 day?

- a) 12 hrs.
- b) 11 hrs.
- c) 10 hrs.
- d) 8 hrs.

61. A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot at the rate of 4 km/hr and partly on bicycle at the rate of 9 km/hr. What is the distance travelled by the farmer on foot?

- a) 14 km
- b) 15 km
- c) 16 km
- d) 17 km

62. $88 \times 888 \times 8888 \div 88 \div 8 \times 101 = ?$

- a) 98644859
- b) 99644448
- c) 99543348
- d) 99643368

63. Simran started a software business by investing Rs.50,000. After six months, Nanda joined her with a capital of Rs.80,000. After 3 years, they earned a profit of Rs.24,500. What was Simran's share in the profit?

- a) Rs.9,423
- b) Rs.10,250
- c) Rs.10,500
- d) Rs.12,500

64. Sakshi can do a piece of work in 20 days. Tanya is 25% more efficient than Sakshi. The number of days taken by Tanya to do the same piece of work is:

- a) 15 days
- b) 16 days
- c) 18 days
- d) 25 days

65. If a train 125 metres long passes a man, running at 5 km/hr in the same direction in which the train is going in 10 seconds, then what is the speed of the train?

- a) 45 km/hr.
- b) 50 km/hr.
- c) 54 km/hr.
- d) 55 km/hr.

66. Two pipes can fill a tank in 20 minutes and 24 minutes, respectively. A waste pipe attached to the tank can empty 3 gallons per minute. If all the three pipes working together can fill the tank in 15 minutes, then what is the capacity of the tank?

- a) 60 gallons
- b) 100 gallons
- c) 120 gallons
- d) 1800 gallons

67. Robert is travelling on his bicycle. He has calculated that to reach a point P at 2 P.M., he needs to travel at 10 km/hr and to reach there at 12 P.M., he needs to travel at 15 km/hr. At what speed must he travel to reach the point P at 1 P.M.?

- a) 11 km/hr
- b) 12 km/hr
- c) 13 km/hr
- d) 14 km/hr

68. Thomas invested an amount of Rs. 13,900 divided in two different schemes P, Q at the simple interest rate of 14% p.a. and 11% p.a., respectively. If the total amount of simple interest earned in 2 years is Rs.3,508, then what was the amount invested in the scheme Q?

- a) Rs.6,400
- b) Rs.6,500
- c) Rs.7,200
- d) Rs.7,500

69. In a regular week, there are 5 working days with 8 working hours a day. A man gets Rs.2.40 per hour for regular work and Rs.3.20 per hour for overtime. If he earns Rs.432 in 4 weeks, then for how many hours does he work?

- a) 160 hrs
- b) 165 hrs
- c) 175 hrs
- d) 180 hrs

70. At what rate of compound interest per annum will a sum of Rs.1,200 become Rs.1,348.32 in 2 years?

- a) 5.5%
- b) 6%
- c) 6.5%
- d) 7%

COMPUTER AND INTERNET AWARENESS

71. The physical equipment of computer that can be seen and touched is called _____.

- a) Hardware
- b) Software
- c) Compiler
- d) DOS

72. A nibble is equal to _____ bits.

- a) 8
- b) 16
- c) 4
- d) 32

73. Which of the following of a computer is used for calculating and comparing?

- a) CU
- b) ALU
- c) Modem
- d) Memory

74. Microsoft Word is a _____ software.

- a) Application
- b) Compiler
- c) System
- d) Programming

75. By default, your document print is in _____ mode.

- a) Landscape
- b) Portrait
- c) Page Setup
- d) Print Preview

76. Which of the following is not a valid data type in MS-Excel?

- a) Number
- b) Character
- c) Label
- d) Date/ Time

77. The intersection of a column and a row in a worksheet is called:

- a) Column
- b) Address
- c) Value
- d) Cell

78. _____ is the keyboard shortcut to use to switch between open Excel windows.

- a) CTRL + TAB
- b) ALT + TAB
- c) CTRL + ALT + TAB
- d) None of the above

79. How can you sum the values in cells A1 through A10 in Excel?

- a) =SUM(A1:A10)
- b) =TOTAL(A1:A10)
- c) =ADD(A1:A10)
- d) =SUMMARY(A1:A10)

80. MS Access represents:

- a) Relational database
- b) Network model
- c) Object oriented model
- d) None of the above

81. Which of the following is not an operating system?

- a) Windows
- b) Linux
- c) Oracle
- d) DOS

82. Which connection is necessary for a computer to join the internet?

- a) internet society
- b) internet service provider
- c) different computer
- d) internet architecture board

83. What does "B2C" stand for in E-commerce?

- a) Business to Client
- b) Business to Commerce
- c) Business to Company
- d) Business to Consumer

16

20.10.2024

CGL - 2024

30

CRMN-2024

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code: **C**

Question Booklet Series No: **211947**

Time Allowed: **150 Minutes**

Total Questions: **150**

Maximum Marks: **150**

There shall be negative marking @ **0.25 mark** per question for wrong/multiple answers

Before answering any question, check the booklet that it contains **16 pages** and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

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2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calc document, slide rules, log tables / electronic watches, smart watch, cell phone, pager electrical/ electronic devices etc, are not allowed inside the examination hall. In case the car is found to be in possession of any of the above, he / she shall be expelled from the exam without any enquiry as to whether the same was / were used by the candidate or not.
3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you is incomplete or different from what you have given in the application form, you shall be awarded Zero mark.
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SEAL

86. What is an operating system?
 a) interface between the hardware and application programs
 b) collection of programs that manages hardware resources
 c) system service provider to the application programs
 d) all of the above mentioned

87. What is a computer network?
 a) A device used to display information on a computer screen
 b) A collection of interconnected computers and devices that can communicate and share resources
 c) A type of software used to create documents and presentations
 d) The physical casing that protects a computer's internal components

88. What is internet?
 a) A network of interconnected local area networks
 b) A collection of unrelated computers
 c) Interconnection of wide area networks
 d) A single network

89. Which of the following is an example of Bluetooth?
 a) wide area network
 b) virtual private network
 c) local area network
 d) personal area network

90. What is the term used to describe the process of analyzing website visitor behavior to improve conversion rates?
 a) Web analytics
 b) Customer segmentation
 c) Market research
 d) Behavioural targeting

Arithmetic

91. If the ages of P and R are added to twice the age of Q, the total becomes 59. If the ages of Q and R are added to thrice the age of P, the total becomes 68. If the age of P is added to thrice the age of Q and thrice the age of R, the total becomes 108, what is the age of P?
 a) 15 years
 b) 19 years
 c) 17 years
 d) 12 years

92. The difference between a two-digit number and the number obtained by interchanging the position of the digits of the number is 27. What is the difference between the digits of that number?
 a) 2
 b) 3
 c) 4
 d) Cannot be determined

93. $55 \times 55 \div 11 \times 9 \div 9 \div \frac{495}{11} = ?$
 a) $\frac{45}{8}$
 b) $\frac{65}{11}$
 c) $\frac{53}{9}$
 d) $\frac{55}{9}$

94. $\frac{2}{7} \div \frac{4}{5} \times \frac{7}{9} \times 9 \div 5 = ?$
 a) 1.5
 b) 1
 c) 0.5
 d) 0.4

Direction (Q No. 95-96): Find the missing numbers in the following series.

95. 13, 14, 30, 93, 376, 1885, ?
 a) 10818
 b) 10316
 c) 11316
 d) 11318

96. 27, 98, 36, 89, 45, ?
 a) 78
 b) 79
 c) 80
 d) 81

97. The average age of 24 students and the class teacher is 16 years. If the class teacher's age is excluded, the average reduces by one year. What is the age of the class teacher?
 a) 50 years
 b) 45 years
 c) 40 years
 d) Data inadequate

98. A batsman in his 12th innings makes a score of 65 and thereby increases his average by 2 runs. What is his

average after the 12th innings if he had never been 'not out'?

- a) 42
- b) 43
- c) 44
- d) 45

99. There were 35 students in a hostel. Due to the admission of 7 new students, the expenses of mess were increased by ₹ 42 per day while the average expenditure per head diminished by ₹ 1. What was the original expenditure of the mess?

- a) ₹400
- b) ₹420
- c) ₹445
- d) ₹465

100. 405 sweets were distributed equally among children in such a way that the number of sweets received by each child is 20% of the total number of children. How many sweets did each child receive?

- a) 7
- b) 9
- c) 18
- d) 45

101. A scooter costs ₹ 25,000 when it is brand new. At the end of each year, its value is only 80% of what it was at the beginning of the year. What will be the value of the scooter at the end of 3 years?

- a) ₹ 10,000
- b) ₹ 12,500
- c) ₹ 12,800
- d) ₹ 12,000

102. X and Y put in ₹ 3,000 and ₹ 4,000 respectively into a business. X reinvests into the business his share of the first year's profit of ₹ 2,100 whereas Y does not reinvest. In what ratio should they share the second year's profit?

- a) 39 : 40
- b) 3 : 4
- c) 3 : 7
- d) 40 : 79

103. 6 litres of a 20% solution of alcohol in water are mixed with 4 litres of a 60% solution of alcohol in water. The percentage alcoholic strength of the mixture is:

- a) 80
- b) 40
- c) 36
- d) 48

104. Pure milk costs ₹ 3.60 per litre. A milkman adds water to 25 litres of pure milk and sells the mixture at ₹ 3 per litre. How many litres of water does he add?

- a) 2 litres
- b) 5 litres
- c) 7 litres
- d) 11 litres

105. By selling an article for ₹ 96, double profit is obtained than the profit that would have been obtained by selling it for ₹ 84. What is the cost price of the article?

- a) ₹ 72.00
- b) ₹ 75.00
- c) ₹ 70.00
- d) ₹ 68.00

106. For a certain article, if discount is 25%, the profit is 25%. If the discount is 10%, then the profit is:

- a) 10%
- b) 20%
- c) 35%
- d) 50%

107. There are two shopkeepers, first shopkeeper calculates his profit percent on the selling price whereas the second shopkeeper calculates his profit percent on the cost price. If the selling price for both the shopkeeper is same and the difference between their profits is ₹ 175. Calculate the sum of the cost price for both the shopkeepers if the profit percentage for both the shopkeepers is 25%.

- a) ₹ 5425
- b) ₹ 4875
- c) ₹ 4675
- d) ₹ 5275

108. Difference between the compound interest and the simple interest accrued on an amount of ₹ 18000, in two years was ₹ 405. What was the rate of interest per annum?

- a) 16
- b) 12
- c) 15
- d) Cannot be determined

109. A lent ₹ 5000 to B for 2 years and ₹ 3000 to C for 4 years on simple interest at the same rate of interest and received ₹ 2200 in all from both of them as interest. The rate of interest per annum is:

- a) 5%
- b) 7%
- c) $7\frac{1}{8}\%$
- d) 10%

110. A sum of ₹ 725 is lent in the beginning of a year at a certain rate of interest. After 8 months, a sum of ₹ 362.50 more is lent but at the rate of interest twice the former. At the end of the year, ₹ 33.50 is earned as interest from both the loans. What was the original rate of interest?

- a) 3.6%
- b) 4.5%
- c) 5%
- d) 3.46%

111. 7 men and 4 boys can complete a work in 6 days. A man does double the work than a boy. In how many days will 5 men and 4 boys complete the work?

- a) 5
- b) 4
- c) 6
- d) None of the above

112. 'A' completes a work in 12 days. 'B' completes the same work in 15 days. 'A' started working alone and after 3 days B joined him. How many days will they now take together to complete the remaining work?

- a) 5
- ~~b) 8~~
- c) 6
- d) 4

113. A contractor undertakes to make a mall in 60 days and he employs 30 men. After 30 days it is found that only one-third of the work is completed. How many extra men should he employ so that the work is completed on time?

- a) 20 men
- b) 25 men
- c) 30 men
- d) 40 men

114. Two cars A and B are running towards each other from different places 88 km apart. If the ratio of the speeds of the cars A and B is 5 : 6 and the speed of the car B is 90 km per hour then after how long will the two meet each other?

- a) $26\frac{2}{3}$ minutes

- b) 24 minutes
- c) 32 minutes
- d) 36 minutes

115. A truck covers distance of 376 km at a certain speed in 8 hours. How much time would a car take at an average speed which is 18 kmph more than that of the speed of the truck to cover a distance which is 14 km more than that travelled by the truck?

- a) 6 hours
- b) 5 hours
- c) 7 hours
- d) 8 hours

116. A 240 meter long train running at the speed of 60 kmph will take how much time to cross another 270 meter long train running in opposite direction at the speed of 48 kmph?

- a) 17 seconds
- b) 3 seconds
- c) 12 seconds
- d) 8 seconds

117. A motorboat, whose speed is 15 km/hr in still water goes 30 km downstream and comes back in 4 hours 30 minutes. The speed of the stream is:

- a) 3 km/hr
- b) 5 km/hr
- c) 7 km/hr
- d) 10 km/hr

118. A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along the current in 10 minutes. How long will it take to go 5 km in stationary water?

- a) 40 minutes
- b) 1 hour
- c) 1 hour and 15 minutes
- d) 1 hour and 30 minutes

119. If the price of petrol has increased from Rs.40 per litre to Rs.60 per litre, then by how much percent a person has to decrease his consumption of petrol so that his expenditure remains the same?

- a) 66.66%
- b) 45.45%
- c) 43.43%
- d) 33.33%

120. A man took loan from a bank at the rate of 12% p.a. simple interest. After 3 years, he had to pay Rs.5,400 interest only for that period. The principal amount borrowed by him was:

- a) Rs.10,000
- b) Rs.12,000
- c) Rs.15,000
- d) Rs.20,000

Data Interpretation

Direction (Q No. 121-125): In the given table some data is given about some different schools. Some data is given and some data is missing. Study the given data carefully and answer the related questions.

School	No of boys	No of girls	No of boys : No of girls	Fees of a boy	Fees of a girl	Boy's fee: Girl's fee	Total Fees collection
A	500	750	2:3	200	120	5:3	190000
B	900	600	3:2	800	?	2:1	?
C	1000	500	2:1	?	?	3:2	250000
D	2000	1600	5:4	700	500	?	220000
E	800	1200	?	?	?	1:1	200000

121. Fee of a boy in school A is what percent of that of a boy in school D?

- a) 28.5%
- b) 29.5%
- c) 27.5%
- d) 33.3%

122. What is the difference between total collection from boys and total collection from girls in school D?

- a) 40000
- b) 60000
- c) 80000
- d) 20000

123. What is the respective ratio of average fee of a student in school B and that of a student in school C?

- a) 92 : 27
- b) 25 : 96
- c) 96 : 25
- d) 91 : 30

124. What is the difference between the average number of boys in all schools together and that of girls in all schools together?

- a) 30
- b) 40
- c) 48
- d) 38

125. Total collection from boys in school E. is what percent more/less than that of girls in same school?

- a) 20%
- b) 25%
- c) $16\frac{2}{3}\%$
- d) None of the above

Direction (Q Nos. 126-130): Study the information carefully to answer the questions that follow:

A school consisting of a total of 1560 students has boys and girls in the ratio of 7 : 5 respectively. All the students are enrolled in different types of hobby classes, viz: Singing, Dancing and Painting. One-fifth of the boys are enrolled in only Dancing classes. Twenty percent of the girls are enrolled in only Painting classes. Ten percent of the boys are enrolled in only Singing classes. Twenty four percent of the girls are enrolled in both Singing and Dancing classes together. The number of girls enrolled in only Singing classes is two hundred percent of the boys enrolled in the same. One-thirteenth of the boys are enrolled in all the three classes together. The ratio of boys enrolled in Dancing and Painting classes together to the girls enrolled in the same is 2 : 1 respectively. Ten percent of the girls are enrolled in only Dancing classes whereas eight percent of the girls are enrolled in both Dancing and Painting classes together. The remaining girls are enrolled in all the three classes together. The number of boys enrolled in Singing and Dancing classes together is fifty percent of the number of girls enrolled in the same. The remaining boys are enrolled in only Painting classes.

126. What is the total number of boys who are enrolled in Dancing?

- a) 318
- b) 364
- c) 292
- d) 434

127. Total number of girls enrolled in Singing is approximately what percent of the total number of students in the school?

- a) 37
- b) 19

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Question Booklet Code:

A

Question Booklet Series No:

449252

Time Allowed: 120 Minutes

Total Questions: 150

Maximum Marks: 150

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers

Before answering any question, check the booklet that it contains 20 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

1. Fill in the OMR answer sheet, mentioning the Roll No. and other data as required in the place(s) indicated therein. Darken the appropriate circles in blue or black ball point pen only. Do not write any name / surname or put any symbol, sign, slogan, prayer or any mark of identification in the OMR answer sheet. Do not tamper with the bar-code or any other portion of the OMR answer sheet. Any such act is liable to render the answer sheet unfit for evaluation.
2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you is incomplete or different from what you have given in the application form, you shall be awarded Zero mark.
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6. After the examination is over, candidates must ensure to fold the OMR Answer Sheet at the perforation and separate the Original Copy and Candidate's Copy of the Two Part OMR Answer Sheet in the presence of the Invigilator and handover the Original Copy to the Invigilator. The Candidate's Copy of the OMR Answer sheet may be taken by the candidate. Failure to hand over the original copy of the OMR Answer Sheet to the Invigilator before leaving the examination hall / room shall make the candidate liable for penal action.
7. Candidates may take with them the respective question-booklet after the examination is over.
8. Failure to comply with or violation of any of the above instructions shall be considered as adopting unfair means and action as deemed proper shall be taken.

SEAL

GPOE-ENG-A-1

30. Five friends are sitting on a bench. A is to the left of B but on the right of C. D is to the right of B but on the left of E. Who are at the extremes?

- a) AB
- b) AD
- c) BD
- d) DE

Arithmetic

31. What approximate value should come in place of the question mark (?) in the following questions?

$$45\% \text{ of } 1500 + 35\% \text{ of } 1700 = ?\% \text{ of } 3175.$$

- a) 50
- b) 45
- c) 30
- d) 35

32. A person sold a cow at a gain of 15%. Had he bought the cow for 25% less and sold it for Rs.600 less, then he would have made a profit of 32%. What was the cost price of the cow?

- a) Rs.3,750
- b) Rs.3,250
- c) Rs.2,750
- d) Rs.2,250

33. What will come in the place of question mark(?) in the following given series?

$$16 \quad ? \quad 21 \quad 30 \quad 46 \quad 71 \quad 107$$

- a) 17
- b) 19
- c) 21
- d) 23

34. What will come in the place of question mark(?) in the following given series?

$$5, 7, 18, 47, 103, ?$$

- a) 195
- b) 210
- c) 200
- d) 190

35. Walking at $\frac{3}{4}$ th of the normal speed, Rabi is delayed by 16 minutes to reach his office. What is the usual time taken by Rabi to cover the distance from his home to the office?

- a) 58 minutes
- b) 52 minutes

- c) 48 minutes
- d) 42 minutes

36. A sum is divided among Rakesh, Suresh and Mohan. If the difference between the shares of Rakesh and Mohan is ₹7000 and between those of Suresh and Mohan is ₹3000, what was the sum?

- a) ₹30,000
- b) ₹13,000
- c) ₹10,000
- d) Cannot be determined

37. The average weight of 8 persons increases by 1.5kg. If a person weighing 65 Kg is replaced by a new person, what could be the weight of the new person?

- a) 76 Kg
- b) 77 Kg
- c) 76.5 Kg
- d) Data inadequate

38. The captain of a cricket team of 11 players is 25 years old and the wicket-keeper is 3 years older. If the age of these two players are replaced by that of another two players, the average age of the cricket team drops by 2 years. Find the average age of these two players.

- a) 15 years
- b) 15.5 years
- c) 17 years
- d) 16.5 years

39. The ratio of present age of Sachin to that of Dravid is 3 : 5 and after five years the sum of their age will be 90 years. Find the difference between present age of Sachin & Dravid?

- a) 14 years
- b) 20 years
- c) 18 years
- d) 30 years

40. The price of commodity X increases by 40 paise every year, while the price of commodity Y increases by 15 paise every year. If in 1988, the price of commodity X was ₹4.20 and that of Y was ₹6.30, in which year will commodity X cost 40 paise more than commodity Y?

- a) 1997
- b) 1998

- c) 1999
- d) 2000

41. Out of a total 85 children playing badminton or table tennis or both, total number of girls in the group is 70% of the total number of boys in the group. The number of boys playing only badminton is 50% of the number of boys and the total number of boys playing badminton is 60% of the total number of boys. The number of children playing only table tennis is 40% of the total number of children and a total of 12 children play badminton and table tennis both. What is the number of girls playing only badminton?

- a) 16
- b) 14
- c) 17
- d) Data inadequate

42. In a race of 120 meters, X beats Y by 20 meters and Z by 35 meters, then Y beats Z by:

- a) 12 meters
- b) 15 meters
- c) 18 meters
- d) 20 meters

43. In a society number of males are 80 more than the number of females, in total number of males 30% are boys and in females 35% are girls and rest are adults. If the number of girls is 18 less than the number of boys. Calculate the total population of the society.

- a) 330
- b) 370
- c) 300
- d) 320

44. Three friends A, B and C started a business by investing a sum of money in the ratio of 5 : 7 : 6. After 6 months C withdraws half of his capital. If the sum invested by 'A' is ₹40,000, out of a total annual profit of ₹33,000, C's share will be:

- a) ₹9,000
- b) ₹12,000
- c) ₹11,000
- d) ₹10,000

45. Jagtap purchases 30kg of wheat at the rate of ₹11.50 per kg and 20 kg of wheat at the rate

of ₹14.25 per kg. He mixed the two and sold the mixture. Approximately at what price per kg should he sell the mixture to make 30 per cent profit?

- a) ₹16.30
- b) ₹18.20
- c) ₹15.60
- d) ₹14.80

46. Samir's age is one-fourth of his father's age and two-third of his sister Reema's age. What is the ratio of the ages of Samir, Reema and their father respectively?

- a) 3 : 2 : 8
- b) 3 : 4 : 8
- c) 2 : 3 : 8
- d) 4 : 3 : 8

47. Pure milk costs ₹20 per litre. After adding water the milkman sells the mixture at the rate of ₹18 per litre, thereby making a profit of 25%. In what ratio does he mix the two?

- a) 18 : 7
- b) 18 : 5
- c) 12 : 7
- d) 12 : 5

48. In a pot, the ratio of water and alcohol is 4 : 3. In another pot, the ratio of water and alcohol is 2 : 1. In what ratio mixture should be taken from both the given mixtures to make the final mixture so that in the final mixture the ratio of water and alcohol is 13 : 8?

- a) 3 : 2
- b) 1 : 1
- c) 4 : 3
- d) 5 : 2

49. Naresh purchased a TV set for ₹11,250 after getting discount of 10% on the labelled price. He spent ₹150 on transport and ₹800 on installation. At what price should it be sold so that the profit earned would be 15% if no discount was offered?

- a) ₹12,937.50
- b) ₹14,030
- c) ₹13,450
- d) ₹15,467.50

50. An article is marked up 40% higher than CP but it was sold x% on discount. The

shopkeeper thus gains 12%. What would be the S.P. of the article with C.P. ₹120 and sold on x% profit?

- a) ₹134.50
- b) ₹144
- c) ₹128
- d) ₹148

51. A person purchased two Bags at the same price and on selling the first Bag he makes a profit of 10%. Selling price of second Bag is ₹90 more than the selling price of the first Bag. Find the cost price of one Bag if his overall profit per cent is 13%?

- a) ₹ 1800
- b) ₹ 3000
- c) ₹ 2000
- d) ₹ 2400

52. The difference between Compound Interest and Simple Interest on a certain sum of money at 10% per annum for 3 years is ₹620. Find the principal if it is known that the interest is compounded annually.

- a) ₹ 200,000
- b) ₹ 20,000
- c) ₹ 10,000
- d) ₹ 100,000

53. The rates of simple interest in two banks A and B are in the ratio 5 : 4 . A person wants to deposit his total savings in two banks in such a way that he received equal half-yearly interest from both. He should deposit the savings in banks A and B in the ratio:

- a) 2: 5
- b) 4: 5
- c) 5: 2
- d) 5: 4

54. A man invested ₹12000 in each scheme A & B. Scheme A offers simple interest at the rate of 8% p.a. for three years, while scheme B offers simple interest at the rate of 12% p.a. for four years. Find the total interest (in ₹) received by the man from both schemes.

- a) 8080
- b) 8640
- c) 8560
- d) 8400

55. If a train passes two bridges of length 800 meters, 400 meters in 100 seconds and 60 seconds, respectively, then what is the length of the train?

- a) 200 meters
- b) 150 meters
- c) 120 meters
- d) 90 meters

56. Three pipes A, B and C can fill separately a cistern in 3, 4 and 6 minutes respectively . A was opened first . After 1 minute, B was opened and after 2 minutes from the start of A, C was also opened. Find the time when the cistern will be full?

- a) $2\frac{1}{9}$ min
- b) $4\frac{1}{2}$ min
- c) $3\frac{3}{4}$ min
- d) 3 min

57. 5 kg of superior quality of sugar is mixed with 25 kg of inferior quality of sugar. The price of superior quality and inferior quality sugar is ₹ 18 and ₹ 12 respectively. The average price per kg of the mixture is :

- a) ₹ 13
- b) ₹ 15
- c) ₹ 18
- d) ₹ 21

58. How much quantity of rice of the price 18 rupees per kg should be mixed with 45kg of rice having price 26 rupees per kg so that after selling mixture at 25.2 rupees per kg there is a profit of 5%?

- a) 30kg
- b) 25kg
- c) 20kg
- d) 15kg

59. Train 'A' running at speed of 72 km/hr crosses a platform of length same as that of the train in 34 sec. If train B, which is 160 meters long crosses the same platform in 20 sec., then find speed of train B (in km/hr)?

- a) 54 km/hr
- b) 90 km/hr
- c) 84 km/hr
- d) 72 km/hr

60. A man goes downstream with a boat to some destination and returns upstream to the starting place in 5 hours. If the speed of the boat in still water and the stream are 10 km/hr and 4 km/hr, respectively, then what is the distance of the destination from the starting place?

- a) 16 km
- b) 18 km
- c) 21 km
- d) 25 km

Data Interpretation

Directions (Qs. 61 – 63) : These questions are based on the following information. Study the information carefully and answer the questions.

The students of a school have an option to study only Hindi, only Sanskrit or a composite subject Hindi and Sanskrit. Out of, the 175 students in the school, boys and girls are in the ratio of 3 : 4 respectively. 40% of boys have opted for only Hindi. 44% of the students have opted for the composite subject. The number of boys who opted for only Sanskrit and that for composite subject are in the ratio of 2 : 1 respectively

61. What is the ratio between the number of boys who have opted for only Hindi and the number of girls who have opted for the composite subject respectively?

- a) 15 : 16
- b) 10 : 7
- c) 10 : 9
- d) 11 : 12

62. How many boys have opted for the composite subject?

- a) 30
- b) 15
- c) 21
- d) 32

63. How many girls have opted for only Sanskrit?

- a) 72
- b) 47
- c) 51
- d) 77

Directions (Qs. 64 -67): The following table gives information about the medals won by these 5 countries in the 2016 Olympic Games. Read the table carefully and answer the questions that follow.

Country	Gold	Sliver	Bronze
USA	46	37	38
China	26	17	26
Japan	12	8	21
Australia	8	12	10
Canada	4	3	15

64. Total number of medals won by the USA is what percent of the total number of medals won by the other 4 countries?

- a) 72.4%
- b) 74.6%
- c) 78.8%
- d) 80.2%

65. If China and Japan are the Asian countries, then what is the ratio of total medals won by the USA alone to the total medals won by these Asian countries?

- a) 11 : 13
- b) 12 : 133
- c) 11 : 10
- d) 12 : 11

66. The total number of Gold medals won by all countries is what percent of the total number of Bronze medals won by all countries?

- a) 87.2%
- b) 88.8%
- c) 91.4%
- d) 92.6%

67. The total number of Bronze medals won by China is what percent of the total number of Bronze and Silver medals won by Canada (Approximately)?

- a) 144.44
- b) 60.46
- c) 142.44
- d) 61.46

Directions (Qs. 68 -71) : Study the following table carefully and answer the questions given below:

In the following table, Data related to candidates appeared and qualified from Ranchi in a competitive exam during 5 years is given. Study the table carefully and answer the questions that follow:

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Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

B

Question Booklet Series No:

112514

Time Allowed: 90 Minutes

Total Questions: 100

Maximum Marks:100

30

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers

Before answering any question, check the booklet that it contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

1. Fill in the OMR answer sheet, mentioning the Roll No. and other data as required in the place(s) indicated therein. Darken the appropriate circles in blue or black ball point pen only. Do not write any name / surname or put any symbol, sign, slogan, prayer or any mark of identification in the OMR answer sheet. Do not tamper with the bar-code or any other portion of the OMR answer sheet. Any such act is liable to render the answer sheet unfit for evaluation.
2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
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SEAL

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d) Rs. 5,480
 62. What is the approximate percentage increase in the amount which Rahul enjoys for entertainment as compared to Preeti for the same?

- a) 33%
- b) 35.5%
- c) 37%
- d) 37.5%

63. The average expenses of Rohit is approximately what percent of the average expenses of W(wife)?

- a) 76.4%
- b) 79.5%
- c) 81.5%
- d) 83.5%

64. Find the difference (in percentage of the budget) between the average expenses of Education and the average expenses on Entertainment of the couple?

- a) 0.9%
- b) 1.3%
- c) 2%
- d) 2.5%

65. The total amount spent by Rahul on Travelling and Food is approximately what percent of the total amount spent by Preeti on Education and Food?

- a) 166%
- b) 168%
- c) 171%
- d) 175%

Directions (Q. 66-70): Study the following table carefully and answer the given questions.

Mobile	Cost Price	Selling Price	% of Profit	Profit
Samsung	Rs.35,000	-	-	Rs.3,500
Apple	Rs. 53,000	-	14%	-
Micromax	-	Rs. 22,000	-	-
LG	Rs. 28,000	-	-	-
HTC	-	Rs. 33,000	10%	-
Sony	Rs. 32,000	-	-	Rs. 4000

66. What is the selling price and % of profit of Sony Mobile?

- a) Rs. 36,000 and 12.5%

- b) Rs. 36,00 and 15%
- c) Rs. 36,00 and 18%
- d) Rs. 36,00 and 20%

67. What is the % of profit by Micromax mobile, if the Cost price of Micromax is $\frac{3}{5}$ -th of the Cost price of HTC mobile?

- a) $33\frac{1}{3}\%$
- b) $26\frac{4}{9}\%$
- c) $25\frac{7}{9}\%$
- d) $22\frac{2}{9}\%$

68. What is the selling price and % of profit of LG mobile, if the profit is Rs. 500 more than the profit of Samsung mobile?

- a) Rs. 32,000 and $14\frac{1}{7}\%$
- b) Rs. 34,000 and $14\frac{4}{7}\%$
- c) Rs. 32,000 and $14\frac{2}{7}\%$
- d) Rs. 34,000 and $17\frac{5}{7}\%$

69. What is the profit earned on Apple mobile?

- a) Rs. 7360
- b) Rs. 7420
- c) Rs. 7560
- d) Rs. 7620

70. What is the ratio between the Cost price and the Selling price of Samsung mobile?

- a) 14 : 15
- b) 10 : 14
- c) 14 : 15
- d) 10 : 11

Arithmetic

71. Which one of the following fractions are in the ascending order?

- a) $\frac{2}{5}, \frac{3}{5}, \frac{1}{3}, \frac{4}{7}, \frac{5}{6}$
- b) $\frac{1}{3}, \frac{2}{5}, \frac{3}{5}, \frac{5}{6}, \frac{4}{7}$
- c) $\frac{1}{3}, \frac{2}{5}, \frac{5}{6}, \frac{4}{7}, \frac{3}{5}$
- d) $\frac{1}{3}, \frac{2}{5}, \frac{4}{7}, \frac{3}{5}, \frac{5}{6}$

72. In a boat, there are 8 men. If a man with weight 60 kg is replaced by a new man, then the

average weight is increased by 1 kg. What is the weight of the new comer?

- a) 75 kg.
- b) 72 kg.
- c) 69 kg.
- d) 68 kg.

73. A man travels equal distances of his journey at a speed of 40, 30 and 15 km/hour, respectively. What is his average speed for the whole journey?

- a) 24 km/hr.
- b) 26 km/hr.
- c) 27 km/hr.
- d) 29 km/hr.

74. $\frac{1}{3}$ rd of a tower is painted black, $\frac{5}{11}$ of the remaining part is painted red and the remaining part is painted blue. If the blue part measures 60 ft., then up to what height the tower is painted black?

- a) 35 ft.
- b) 45 ft.
- c) 55 ft.
- d) 65 ft.

75. In an examination, 34% of students failed in Arithmetic and 42% in English, If 20% of students failed in both Arithmetic and English, then students who passed in both the subjects was:

- a) 44%
- b) 50%
- c) 54%
- d) 56%

76. A candidate gets 71% of votes and wins the election by 756 votes. If there are only two

contestants in the election, then what is the total number of votes polled?

- a) 1910
- b) 1894
- c) 1849
- d) 1800

77. A person purchases 20 litres of juice at Rs. 2.20 per litre and diluted with water so that it becomes 22 litres. In order to earn a 10% profit, he should sell the juice at:

- a) Rs.2.75
- b) Rs.2.40
- c) Rs.2.20
- d) Rs.2.00

78. A person sells a chemical at Rs. 15 per litre. In what ratio, should water be mixed in that chemical so that after selling the mixture at Rs. 12 per litre he will get a profit of 20%?

- a) Chemical : Water :: 2 : 1
- b) Chemical : Water :: 3 : 2
- c) Chemical : Water :: 2 : 3
- d) Chemical : Water :: 1 : 2

79. Due to a 25% increase in the price of rice, a person is forced to buy 1 kilogram less rice for Rs. 100. What is the initial price of rice per kilogram?

- a) Rs.10
- b) Rs.10.50
- c) Rs.20
- d) Rs.22.50

80. Ranjan borrowed Rs.50,000 from Rakesh at simple interest. After 3 years, Rakesh got Rs.3000 more than what he had given to Ranjan. What was the rate of interest per annum?

- a) 4.5%
- b) 5%
- c) 7%
- d) 8.5%

81. The salaries of three persons A, B and C are in the ratio 1 : 3 : 4. If their salaries are increased by 5%, 10% and 15%, respectively, then the increased salaries will be in the ratio:

- a) 18 : 66 : 76
- b) 19 : 66 : 84
- c) 20 : 66 : 88
- d) 21 : 66 : 92

82. A and B are two alloys in which the ratio of gold, copper are 5 : 3 and 5 : 11, respectively. If equal amount of these two alloys are melted and made an alloy C, then what will be the ratio of gold and copper in the alloy C?

- a) 15 : 17
- b) 22 : 18
- c) 25 : 23
- d) 33 : 25

83. Milk and water in a mixture is in the ratio 7 : 5. When 15 litres of water is added to it, the ratio of milk and water in the new mixture is in the ratio 7 : 8. Then what is the total quantity of water in the new mixture?

- a) 30 litres
- b) 35 litres
- c) 40 litres
- d) 60 litres

84. If a shopkeeper marks his goods 30% above the cost price, but allows a discount of 10% at the time of sale. What would be his profit?

- a) 21%
- b) 20%
- c) 18%
- d) 17%

85. A man bought a certain quantity of rice at the rate of Rs. 150 per quintal. 10% rice was spoiled. At what rate per quintal should the man sell the remaining rice to earn a profit of 20%?

- a) Rs.190
- b) Rs.200
- c) Rs.215
- d) Rs.220

86. A merchant has announced a rebate of 25% on prices of ready-made garments at the time of sale. If a purchaser needs to have a rebate of Rs.400, then how many garments, each costing Rs.320 should he purchase?

- a) 10
- b) 8
- c) 7
- d) 5

87. Rs. 15, 000 was invested by both Ram and Shyam together to start a small business. They got a profit of Rs. 2,000 at the end of the year. If Shyam took Rs. 600 as his profit share, then what is the amount invested by Ram?

- a) Rs. 4,500
- b) Rs. 9,000
- c) Rs. 10,500
- d) Rs. 11,000

88. P and Q started a hotel. P left after 6 months. After the year ends, P got Rs.6,000 as profit out of

the total profit of Rs.9,000. What was the amount invested by Q, if P had invested Rs.20,000?

- a) Rs.5,000
- b) Rs.6,500
- c) Rs.7,500
- d) Rs. 10,000

89. Three persons A, B and C start together from the same place to walk around a circular path of length 12 km. A walks at the rate of 4 km/hr, B at the rate of 3 km/hr and C at $3\frac{1}{2}$ km/hr. After how many hours, they will meet together at the starting place?

- a) 8 hours
- b) 12 hours
- c) 18 hours
- d) 24 hours

90. Prakash travels 96 km at a speed of 16 km/hr using a bike, 124 km at 31 km/h by car and another 105 km at 7 km/h in horse cart. Then what is his average speed for the entire distance travelled?

- a) 11 km/hr
- b) 13 km/hr
- c) 14.25 km/hr
- d) 16.5 km/hr

91. Sugar A worth Rs.130 per kg and B of Rs.120 per kg are mixed with a third variety of sugar C in the ratio of 1 : 1 : 2. If the mixture is worth Rs.160 per kg, then what is the price of the third variety of sugar?

- a) Rs.195 per kg.
- b) Rs.200 per kg.
- c) Rs.210 per kg.
- d) Rs.215 per kg.

92. If 26-th January, 1996 was a Friday, then 26-th January, 1997 was:

- a) Monday
- b) Thursday

- c) Saturday
- d) Sunday

93. In a farm, along with 50 hens, there were 45 goats, 8 horses and some farmers. If the total number of legs be 224 more than the number of heads, then what is the number of farmers in the farm?

- a) 18
- b) 16
- c) 15
- d) 12

94. 6 men can pack 12 boxes in 7 days by working for 7 hours a day. Then in how many days can 14 men pack 18 boxes, if they work for 9 hours a day?

- a) 3.5 days
- b) 5 days
- c) 7.5 days
- d) 12 days

95. What is Rahul's present age, if after 10 years his age will be 4 times his age before 5 years?

- a) 16 years
- b) 17 years
- c) 18 years
- d) 10 years

96. Pooja is twice as efficient as Aarti and takes 90 days less than Aarti to complete a job. Then in how many days they can finish the job together?

- a) 30 days
- b) 45 days
- c) 60 days
- d) 90 days

97. Two pipes can fill a tank in 6 hours and 8 hours, respectively, while a waste pipe empties the full tank in 12 hours. If all the three pipes operate simultaneously, then in how much time will the tank be filled?

- a) $7\frac{1}{2}$ hours
- b) $4\frac{4}{5}$ hours
- c) $3\frac{2}{7}$ hours
- d) $1\frac{1}{5}$ hours

98. A contractor pays Rs.20 to a worker for each day and the worker forfeits Rs.10 for each day, if he remains idle. At the end of 60 days, if the worker gets Rs.300, then for how many days the worker remains idle?

- a) 28 days
- b) 30 days
- c) 34 days
- d) 40 days

99. The ages of two members of a family are in a ratio $3 : \frac{1}{2}$. If the average of their ages is 35, then what is the sum of their ages after 11 years?

- a) 102 years
- b) 92 years
- c) 89 years
- d) 81 years

100. What is the measure of the-angle between the minute hand and the hour hand of a clock when the time is 8.30 ?

- a) 60°
- b) 66°
- c) 75°
- d) 80°

19

CTS-2023 civil/mech - 19.01.2025

ALNK-2024

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

C

Question Booklet Series No:

110963
110964

Time Allowed: 150 Minutes

Total Questions: 150

Maximum Marks: 150

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers. Before answering any question, check the booklet that it contains 24 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

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2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without enquiry as to whether the same was / were used by the candidate or not.
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SEAL



- d) Gives details about startup programs and their impact on system boot time

- b) 15 kg
c) 47 kg
d) 55 kg

ARITHMETIC

91. The largest four digit number exactly divisible by each of 12, 15, 18 and 27 is:

- a) 9930
b) 9690
c) 9720
d) 9960

92. The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they all change simultaneously at 8:20 hours, then at what time will they again change simultaneously?

- a) 8 : 27 : 12 hrs
b) 8 : 27 : 48 hrs
c) 8 : 27 : 24 hrs
d) 8 : 27 : 36 hrs

93. The number whose square is equal to the difference of the squares of 75.15 and 60.12 is:

- a) 45.09
b) 46.09
c) 47.09
d) 48.09

94. People in a rally are made to stand in rows. If 4 persons are extra in each row, there would be 2 rows less. If 4 persons are less in each row, there would be 4 more rows. The number of persons in the rally are:

- a) 90
b) 92
c) 94
d) 96

95. In a class with certain number of students, if one student weighing 50 kg is added then average weight of the class increases by 1 kg. If one more student weighing 50 kg is added, then the average weight of the class increases by 1.5 over the original average. What is the original average weight of the class?

- a) 2 kg

96. In a two digit positive number, the unit digit is equal to the square of tens digit. The difference between the original number and the number formed by interchanging the digits is 54. What is 40% of the original number?

- a) 15.6
b) 37.2
c) 24
d) None of these

97. Six years ago, the respective ratio between the ages of Riddhi and her father at that time was 1 : 7. The difference between the age of Riddhi's father and Riddhi is 36 years. What will be Riddhi's age 5 year from now?

- a) 13 years
b) 17 years
c) 19 years
d) 21 years

98. A man had a certain amount of money with him. He spent 20% of that to buy grocery and 5% of the remaining on transport, and gifted away ₹ 120. If he is left with ₹ 1,400, then the amount he spent on transport is:

- a) ₹ 76
b) ₹ 61
c) ₹ 95
d) ₹ 80

99. The seven digit number $876p37q$ is divisible by 225. The values of p and q can be respectively:

- a) 9,0
b) 0,5
c) 0,0
d) 9,5

100. A business man gives 4% discount on the marked price and gives 1 article free for buying every 15 articles and thus

gains 35%. The marked price is increased above the cost price by:

- a) 20%
- b) 39%
- c) 50%
- d) 55%

101. A pond was dug by four men: Nishant, Priyanam, Aniruddha and Rahim. They were paid a total of ₹1500 and the money is to be shared in the ratio of 1 : 2 : 2 : 1 respectively. What is the share of Nishant and Rahim together?

- a) ₹ 1500
- b) ₹ 1000
- c) ₹ 500
- d) None of these

102. 11 friends went to a restaurant and decided to pay the bill amount equally but 10 of them could pay ₹ 60 each, as a result 11th friend has to pay ₹ 50 extra than his share. Find the amount paid by him(11th friend):

- a) ₹ 105
- b) ₹ 110
- c) ₹ 115
- d) ₹ 120

103. Running at the same constant rate, 6 identical machines can produce 2700 files per minute. At this rate, how many files could 10 such machines produce in 4 minutes?

- a) 648
- b) 1800
- c) 2700
- d) 10800

104. E, F and G can do a piece of work in 20 days, 30 days and 60 days respectively. In how many days can E do work, if he is assisted by F and G on every third day?

- a) 12
- b) 13
- c) 15
- d) 18

105) Nine taps of same capacity can fill a water tank completely in 20 minutes. How many taps of the same capacity are required to fill up the same water tank in 15 minutes?

- a) 10
- b) 11
- c) 14
- d) 15

106. It takes eight hours for a 600 km journey, if 120 km of it is done by train and the rest is done by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the car is :

- a) 3:5
- b) 3:4
- c) 4:3
- d) 4:5

107. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. What is the ratio of their speeds?

- a) 3 : 2
- b) 2 : 1
- c) 4 : 3
- d) 1 : 2

108. A man can row $7\frac{1}{2}$ kms an hour in still water and he finds that it takes him twice as long to row down the river. The rate of the stream is:

- a) 2.4 km/hr
- b) 3.4 km/hr
- c) 2.5 km/hr
- d) 3.5 km/hr

109. How many kgs of Bajra costing ₹8 per kg must be mixed with 36 kg of wheat costing ₹ 5.40 per kg, so that 20% gain may be obtained by selling the mixture at ₹ 7.2 kg?

- a) 10.8 kg
- b) 10.6 kg
- c) 10.4 kg
- d) 9.8 kg

110. If the annual rate of simple interest increases from 10% to $12\frac{1}{2}\%$, a man's annual income increased by ₹ 1250. The principal is:
- ₹ 45000
 - ₹ 50000
 - ₹ 60000
 - ₹ 65000
111. At what rate of interest will ₹ 20000 become ₹ 24200 after 2 years when interest is compounded annually?
- 5%
 - 6%
 - 10%
 - 15%
112. The sum of all possible 3 digit numbers formed by digits 3, 0 and 7, using each digit only once is:
- 2010
 - 2220
 - 1990
 - 2110
113. A carpet of 90 cm wide is to be laid at ₹ 4.80/m in a room, which is 10m long. The total cost of carpeting is ₹ 960. What is the breadth of the room?
- 17 m
 - 17.5 m
 - 18 m
 - 18.5 m
114. Three pipes D, E, F can fill a tank in 6 hours. After working at it together for 2 hours, F is closed and D & E can fill the remaining part in 7 hours. The number of hours taken by F alone to fill the tank is:
- 10
 - 12
 - 14
 - 16
115. In an alloy, the ratio of Aluminium and Copper is 5 : 2. If 1.250 kg of Copper is mixed in 17 kg 500 g of alloy, then the ratio of Aluminium and Copper in the alloy will be:
- 1 : 2
 - 2 : 1
 - 2 : 3
 - 3 : 2
116. A merchant has 1000 kg of brinjals, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 18% profit is:
- 560 kg
 - 600 kg
 - 400 kg
 - 640 kg
117. 150% of 15 + 75% of 75 = ?
- 75.75
 - 281.25
 - 135
 - None of these
118. A class starts at 10 a.m and lasts till 1.27 pm. Four periods are held during this interval. After every period, 5 minutes are given free to the students. The exact duration of each period is:
- 42 min
 - 48 min
 - 51 min
 - 53 min
119. Alankar goes 4 km against the current of a stream in 1 hour and 2 km along the current in 15 min. How long will it take him to go 7 km in stationary water?
- 1 h 15 min
 - 1 h 20 min
 - 1 h 10 min
 - 1 h 5 min
120. The sum of squares of the first ten natural numbers is:
- 300
 - 55
 - 385
 - 380

20

9.02.2025

30

Do not open the Seal of the Question Booklet until you are asked to

TSGR-2024

Question Booklet Code:

D

Question Booklet Series No:

100092

Time Allowed: 120 Minutes

Total Questions: 150

Maximum Marks: 150

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers

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SEAL

TSGR-ENG-D-1

115. If the total number of candidates appeared in 2010 and 2011 together was 47400, then the total number of candidates qualified in these two years together was:
- 34700
 - 32100
 - 31500
 - Data inadequate

(Q. 116 to 120) : Study the following table and answer the given questions.

Number of watches of Brand 'X' sold by 5 stores (P, Q, R, S, T) during 5 months.

Store → Months ↓	P	Q	R	S	T
March	297	234	189	235	275
April	254	209	197	187	290
May	158	215	218	108	287
June	255	198	225	189	407
July	360	178	219	284	398

116. The number of watches sold by store T increased by what percent from March to June ?

- 48
- 45.5
- 42
- 43.5

117. What is the difference between total number of watches sold by store R in June and March together and total number of watches sold by store Q in the same months together

- 17
- 14
- 24
- 18

118. What is the respective ratio between total number of watches sold by store P & S together in April and total number of watches sold by the same store together in May ?

- 69:34
- 65:34
- 63:44
- 63:38

119. What is the average number of watches sold in July by store Q, R and S ?

- 234
- 225
- 227
- 229

120. Number of watches sold by store T in April and July together is what percent more than the number of watches sold by store P in July ?

- $96\frac{1}{9}$
- $91\frac{1}{9}$
- $90\frac{1}{9}$
- $92\frac{1}{3}$

121. Subhakalyani paid $\frac{3}{5}$ of a bill. If ₹ 400 of the bill is still due, what was the total amount of the bill?

- ₹ 800
- ₹ 1000
- ₹ 1200
- ₹ 1800

122. Three numbers are in the ratio 4 : 5 : 6 and their average is 25. The largest number is:

- 41
- 36
- 30
- 28

123. Arabinda is 40 years old and Kalinga is 60 years old. How many years ago was the ratio of their ages 3 : 5?

- 5 years
- 20 years
- 10 years
- 37 years

124. $(0.08\% \text{ of } 363 + 0.6\% \text{ of } 241) \times$
a) 8.682
b) 86.82
c) 846.2
d) 868.2

125. Kadambini bought 20 vessels for ₹ 12000 and sold them at a profit equal to the selling price of 4 vessels. The selling price of each vessel is:

- a) ₹ 700
b) ₹ 725
c) ₹ 750
d) ₹ 775

126. P began a business with ₹ 4500 and was joined afterwards by Q with ₹ 5400. If the profits at the end of the year were divided in the ratio 2 : 1, Q joined the business after:

- a) 4 months
b) 5 months
c) 6 months
d) 7 months

127. If a job takes 12 workers to complete in 4 hours, how long should it take 15 workers to complete the job?

- a) 3 hr 12 min
b) 3 hr 24 min
c) 3 hr 30 min
d) None of the above

128. In 1 minute, $\frac{3}{7}$ of a bucket is filled. The rest of the bucket can be filled in:

- a) $\frac{3}{5}$ minutes
b) 1 minutes
c) $\frac{4}{3}$ minutes
d) $\frac{3}{7}$ minutes

129. Two trains approach each other at 30 km/hr and 27 km/hr from two places 342 km apart. After how many hours will they meet?

- a) 5 hours
b) 6 hours
c) 7 hours
d) 12 hours

130. A boat covers a distance of 30 km in $2\frac{1}{2}$ hrs running downstream. While returning, it covers the same distance in $3\frac{3}{4}$ hrs. What is the speed of the boat in still water?

- a) 14 km/hr
b) 16 km/hr
c) 18 km/hr
d) None of the above

131. How much of coffee costing ₹36.60 per kg be mixed with 63 kg of coffee costing ₹ 17.10 per kg, so that the mixture may cost ₹ 24 per kg?

- a) 30.5 kg
b) 33.5 kg
c) 34.5 kg
d) 39.5 kg

132. At what rate percent per annum will a sum of money become double in 8 years?

- a) 11.2% per annum
b) 12.5% per annum
c) 13.5% per annum
d) 15% per annum

133. What largest number of four digits is exactly divisible by 88?

- a) 9768
b) 9944
c) 9988
d) 8888

134. By how much is $\frac{3}{4}$ th of 52 lesser than $\frac{2}{3}$ rd of 99?

- a) 27
b) 42
c) 49
d) 66

135. ₹ 1250 at 12% per annum compounded annually will amount to ₹ 1568 in:

- a) 3 years
b) 4 years
c) 1 year
d) 2 years

136. Clinton alone can do a work in 10 days and Joseph alone can do the same work in 15 days. In how many days will they together complete the same work?

- a) 6 days
- b) 5 days
- c) 4 days
- d) 7 days

137. A goods train 350 m long passes through a tunnel of length 1250 m in 80 sec. What is the speed of the train?

- a) 58 km/hr
- b) 64 km/hr
- c) 72 km/hr
- d) 87 km/hr

138. A shopkeeper marks his goods at 80% more than their cost price and allows a discount of 48% on the marked price. His loss percentage is:

- a) $7\frac{3}{5}\%$
- b) $3\frac{1}{5}\%$
- c) $8\frac{4}{5}\%$
- d) $6\frac{2}{5}\%$

139. Mitali travelled from her home to her office at a speed of 20 km/hr and walked back at a speed of 5 km/hr. The whole journey took 4 hours. The distance between her office and her home is:

- a) 16 km
- b) 10 km
- c) 8 km
- d) 6 km

140. Five – fourths of a number is greater than three – fourths of the number by 6. Find the number.

- a) 10
- b) 14
- c) 12
- d) 8

141. The LCM and HCF of two numbers are 126 and 9 respectively. If one of the number is 18, then what is the other number?

- a) 63
- b) 36
- c) 84
- d) 24

142. Average of 15 numbers is 53. A number if removed, the average of 14 numbers becomes 55. Which number is removed?

- a) 23
- b) 24
- c) 25
- d) 26

143. Salaries of Rahim and Karim are in the ratio 2 : 3. If the salary of each is increased by ₹2000, the new ratio becomes 40 : 57. What is Karim's present salary?

- a) ₹ 25800
- b) ₹ 17000
- c) ₹ 14600
- d) ₹ 20000

144. A sink contains exactly 12 litres of water. If water is drained from the sink until it holds 6 litres of water less than the quantity drained away, then how many litres of water were drained away?

- a) 6
- b) 7
- c) 8
- d) 9

145. The angle between the minute hand and the hour hand of a clock when the time is 4.20 is:

- a) 0°
- b) 5°
- c) 10°
- d) 15°

146. Aparna invests money in three different schemes for 6 years, 10 years and 12 years at 10%, 12% and 15% simple interest respectively. At the completion of each scheme, she gets the same interest. The ratio of her investments is:

- a) 2 : 3 : 4
- b) 3 : 4 : 6
- c) 3 : 4 : 2
- d) 6 : 3 : 2

147. Debabrata bought 1600 eggs at ₹ 3.75 per dozen. He sold 900 of them at 2 eggs per 1 rupee and the remaining at 5 eggs per 2 rupees. His gain percent is:

- a) 42%
- b) 45%
- c) 46%
- d) 48%

148. What decimal fraction is 40 ml of a litre?

- a) 0.4
- b) 0.04
- c) 0.004
- d) None of the above

149. A car driver travels to a place 150 km away at an average speed of 50 km/hr and returns at 30 km/hr. His average speed for the whole journey in km/hr is:

- a) 36.5
- b) 37
- c) 37.5
- d) None of the above

150. What is the sum of the squares of the numbers from 3 to 18?

- a) 2104
- b) 2105
- c) 2101
- d) 2106

21

CHSL - 2024

16.02.2025

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LOGM-2024

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

B

Question Booklet Series No:

137863

Time Allowed: 120 Minutes

Total Questions: 150

Maximum Marks: 150

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers

Before answering any question, check the booklet that. It contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

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SEAL

LOGM-ENG-B-1

118. Smt. Anupriya Singh Patel is the Union Minister of State, Govt. of India in which ministry?

- a) Ministry of Jal Shakti
- b) Ministry of Women & Child Development
- c) Ministry of Health & Family Welfare
- d) Ministry of Corporate Affairs

119. Who is the current Chief Minister of Chhattisgarh?

- a) Shri Vishnu Deo Sai
- b) Shri Hemant Soren
- c) Shri Mohan Yadav
- d) Ms Atishi Marlena

ARITHMETIC

121. Soudamini plants 5184 saplings in her garden and arranges them, so that there are as many rows as there are saplings in a single row. How many rows are there in the garden?

- a) 70
- b) 71
- c) 72
- d) 73

122. The smallest five digit number which is divisible by 12, 18 and 21 is:

- a) 30256
- b) 10080
- c) 10224
- d) 50321

123. Five bells ring at the intervals of 12, 15, 16, 20 and 25 min, respectively. If they ring together at midnight, then at what time next will they ring together?

- a) 6 : 30 PM
- b) 7 : 00 PM
- c) 7 : 30 PM
- d) 8 : 30 PM

124. A certain sum on compound interest becomes ₹56,180, when compounded annually after 2 years and ₹59550.80 after 3 years. Find the sum (in ₹).

- a) 45200
- b) 51100
- c) 50000
- d) 48000

120. Who is the State Cabinet Minister of Law, Govt. of Odisha?

- a) Dr. Mukesh Mahaling
- b) Dr. Krushna Chandra Mahapatra
- c) Shri Bibhuti Bhusan Jena
- d) Shri Prithviraj Harichandan

125. Milk and water in two vessels A and B are in the ratio 5 : 3 and 2 : 3 respectively. In what ratio should the liquids in both the vessels be mixed to obtain a new mixture in vessel C containing half milk and half water?

- a) 1 : 2
- b) 2 : 3
- c) 3 : 5
- d) 4 : 5

126. Simplify the following.

- $5 \times 0.5 \times 0.05 \times 0.005 \times 500$
- a) 31.25
 - b) 0.3125
 - c) 3125
 - d) 0.03125

127. A student was asked to find the value of $\frac{3}{8}$ th of a sum of money (in Rs.). The student made a mistake by dividing the sum by $\frac{8}{3}$ and thus got an answer which exceeded the correct answer by Rs.55. What was the correct answer?

- a) Rs.9
- b) Rs.18
- c) Rs.24
- d) Rs.48

128. A, B, C together invest Rs.50,000 for a business. A invests Rs.4,000 more than B and B invests Rs.5,000 more than C. Out of a total profit of Rs.35,000, what is the share of A?

- a) Rs.8,400
- b) Rs.11,890
- c) Rs.13,000
- d) Rs.14,700

129. Three pipes A, B and C together can fill a tank in 6 hours. After working together for 2 hours, C is closed and A, B filled the remaining part of the tank in 7 hours. Then the number of hours the pipe C alone would take to fill the tank will be _____.
- 10 hours
 - 13 hours
 - 14 hours
 - 16 hours
130. A farmer travelled a distance of 61 km in 9 hours. If he travelled partly on foot at the rate of 4 km/hr and partly on bicycle at the rate of 9 km/hr, then what is the distance travelled by the farmer on foot?
- 12 km
 - 13 km
 - 16 km
 - 20 km
131. A man purchased a cow for Rs.3000 and sold it for Rs.3600 the same day allowing the buyer a credit of 2 years. If the man charged a rate of simple interest of 10% per annum from the buyer, then the man has a gain of _____.
- 0%
 - 2.5%
 - 3.5%
 - 5%
132. Father is aged 3 times more than the age of his son Rohit. After 8 years, he would be $2\frac{1}{2}$ times of Rohit's age. After further 8 years, how many times would he (father) be of Rohit's age?
- 2 times
 - $2\frac{1}{4}$ times
 - $2\frac{3}{4}$ times
 - 3 times
133. When we multiply a certain two-digit number by the sum of its digits, 405 is achieved. If we multiply the number written in reverse order of the same digits by the sum of the digits, we get 486. Find the number.
- 81
 - 45
 - 36
 - 54
134. A man buys a shirt and a trouser for Rs 371. If the trouser costs 12% more than the shirt, find the cost of the shirt.
- Rs 125
 - Rs 150
- c) Rs 175
d) Rs 200
135. Two cars leave simultaneously from points A & B on a straight line towards each other. The distance between A and B is 100 km. They meet at a point 40 km from A. find the ratio of their speeds.
- $\frac{1}{3}$
 - $\frac{2}{3}$
 - $\frac{1}{4}$
 - $\frac{3}{4}$
136. A train 77m long is running at 60 km/hr. If it takes 30 secs to cross a bridge, then find the length of the bridge.
- 412 m
 - 420 m
 - 423 m
 - 426 m
137. Rani's weight is 25% that of Meena's and 40% that of Tara's. What percentage of Tara's weight is Meena's weight?
- 120%
 - 140%
 - 150%
 - 160%
- * 138. A person deposited Rs 8000 in a bank. After two years he withdrew Rs 3000 and at the end of four years he received an amount of Rs 6800. Find the rate of simple interest per annum.
- 4
 - 5
 - 8
 - 6
139. A number consists of two digits whose sum is 8. If 8 is added to the number, the digits are reversed. Find the number.
- 25
 - 35
 - 40
 - 15
140. The sum of four consecutive even numbers A, B, C and D is 180. What is the sum of the set of next four consecutive even numbers?
- 196
 - 204
 - 212
 - 214

141. What least value must be given to "n" so that the number "6135n2" becomes divisible by 9?

- a) 1
- b) 2
- c) 3
- d) 4

142. In an examination, a student attempted 15 questions correctly and secured 40 marks. If there were two types of questions (2 marks and 4 marks questions), how many questions of 2 marks did he attempt correctly?

- a) 5
- b) 10
- c) 20
- d) 40

143. After successive discounts of 12% and 5%, an article was sold for Rs 209. What was the original price of the article?

- a) Rs 226
- b) Rs 250
- c) Rs 252
- d) Rs 269

144. The ratio of income of A and B is 3 : 4. The ratio of their expenditure is 4 : 5. Find the ratio of their savings if the savings of A is one-fourth of his income.

- a) 11 : 18
- b) 12 : 19
- c) 14 : 19
- d) 11 : 19

145. A, B and C entered into a partnership. A invested Rs 2560 and B invested Rs 2000. At the end of the year, they gained Rs 1105, out of which A got Rs 320. Find C's capital.

- a) Rs 2840
- b) Rs 4028
- c) Rs 4280
- d) Rs 4820

146. If a boat goes 7 km upstream in 42 minutes and the speed of the stream is 3 kmph, find the speed of the boat in still water.

- a) 4.2 km/hr
- b) 9 km/hr
- c) 13 km/hr
- d) 21 km/hr

147. Reema types 540 words during half an hour. How many words would she type in 6 minutes?

- a) 98
- b) 108
- c) 126
- d) 112

148. In an examination, 96% of the candidates passed and 50 failed. How many candidates appeared?

- a) 1000
- b) 1150
- c) 1250
- d) 1300

149. A certain number of tennis balls were purchased for Rs 450. Five more balls could have been purchased for the same amount if each ball was cheaper by Rs 15. Find the number of balls purchased.

- a) 15
- b) 20
- c) 10
- d) 25

150. 1000 soldiers in a fort had enough food for 20 days. But some soldiers were transferred to another fort and the food lasted for 25 days. How many soldiers were transferred?

- a) 180
- b) 210
- c) 240
- d) 200

22

LTR

23.03.2025

ELIZ - 2024

Do not open the Seal of the Question Booklet until you are asked to

20

Question Booklet Code:

A

Question Booklet Series No:

165785

Time Allowed: 120 Minutes

Total Questions: 100

Maximum Marks: 100

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers

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SEAL



25. Which forest is known as the largest rain forest of the world?

- a) Congo rain forest
- b) Indo-Burma forest region
- c) Amazon rain forest
- d) Australian rain forest

26. Which state has the highest density of Population in India according to 2011 census?

- a) Bihar
- b) West Bengal
- c) Kerala
- d) Tamil Nadu

27. Which among the following rivers does not pass through Odisha?

- a) Mahanadi
- b) Subarnarekha
- c) Ganga
- d) Rushikulya

28. Malkangiri's district headquarter is the farthest from state capital Bhubaneswar. Which district headquarter is the second farthest from state capital Bhubaneswar?

- a) Nabarangpur
- b) Nuapada
- c) Koraput
- d) Bhawanipatna

29. What is the percentage of Rural Population in Odisha as per latest 2011 Census?

- a) 81.3%
- b) 83.3%
- c) 85.3%
- d) 79.3%

30. What is the area of Odisha?

- a) 1,55,707 Sq. Km.
- b) 1,45,707 Sq. Km.
- c) 1,65,707 Sq. Km.
- d) 1,55,107 Sq. Km.

ARITHMETIC

31. A man sold two steel chairs for Rs 500 each. On one, he gains 20% and on other, he loses 12%. How much does he gain or lose in the whole transaction (approx)?

- a) 1.5% gain
- b) 2% gain
- c) 1.5% loss
- d) 2% loss

32. A sum of money lent out at simple interest amounts to Rs 720 after 2 years and to Rs 1020 after a further period of 5 years. The sum is:

- a) Rs 500
- b) Rs 400
- c) Rs 600
- d) Rs 700

33. The average score of boys in an examination in a school is 71 and that of the girls is 73. The average score of the school in that examination is 71.8. The ratio of the number of boys to the number of girls appeared in the examination is:

- a) 1 : 2
- b) 3 : 2
- c) 2 : 2
- d) 4 : 2

34. Class A has students twice that of Class B. After adding 20 students to class A and 30 students to Class B, the total number of students in both the classes is 140. What is the number of students in class A in the beginning?

- a) 30
- b) 60
- c) 80
- d) 140

35. The average age of a jury of 5 is 40. If a member aged 35 resigns and a man aged 25 becomes a member, then the average age of the new jury is:

- a) 30

- b) 38
- c) 40
- d) 42

36. With an average speed of 40 km/hour, a train reaches its destination in time. If it goes with an average speed of 35 km/hour, it is late by 15 minutes. The total journey is:

- a) 30 km
- b) 40 km
- c) 70 km
- d) 80 km

37. The number of seats in an auditorium is increased by 25%. The price of a ticket is also increased by 12%. Then the increase in revenue collection will be

- a) 40%
- b) 35%
- c) 45%
- d) 48%

38. A person takes a loan of Rs 10, 000 partly from a bank at 8% per annum and remaining from another bank at 10% per annum. He pays a total interest of Rs 950 per annum. Amount of loan taken from the first bank (in Rs) is:

- a) 2500
- b) 5200
- c) 2050
- d) 5020

39. An article was sold for Rs 96. If percentage of profit was numerically equal to the cost price, the cost price of the article is

- a) Rs. 70
- b) Rs. 60
- c) Rs. 90
- d) Rs. 100

40. Three students A, B and C play Cricket. The runs scored by A and B respectively are in the ratio 3:2. B's runs to C's runs are

also in the same ratio. Together they score 342 runs. Then the runs scored by B are:

- a) 216
- b) 108
- c) 90
- d) 171

41. A, B and C can complete a work in 2 hours. If A does the job alone in 6 hours and B in 5 hours, how long will it take for C to finish the job alone?

- a) $5\frac{1}{2}$ hours
- b) $7\frac{1}{2}$ hours
- c) 9 hours
- d) $4\frac{1}{2}$ hours

42. The ratio of the number of boys and girls in a college is 3 : 2. If 20% of the boys and 25% of the girls are adults, the percentage of those students who are not adults, is:

- a) 58%
- b) 67.5%
- c) 78%
- d) 82.5%

43. Successive discounts of 10% and 30% are equivalent to a single discount of:

- a) 40%
- b) 35%
- c) 38%
- d) 37%

44. A car travels 432 km on 48 litres of petrol. How far would it travel on 20 litres of petrol?

- a) 180 km
- b) 160 km
- c) 200 km
- d) 140 km

45. 120 men had food provision for 200 days. After five days, 30 men left the place. How long will the remaining food last?

- a) 220 days
- b) 210 days
- c) 240 days

d) 260 days

46. Two pipes A and B can fill a tank in 12 minutes and 15 minutes respectively while a third pipe C can empty the full tank in 20 minutes. All the three pipes are opened in the beginning. However, pipe C is closed 6 minutes before the tank is filled. In what time will the tank be full?

- a) 5 minutes
- b) 7 minutes
- c) 9 minutes
- d) 11 minutes

47. If $\frac{1}{8}$ of a pencil is black, $\frac{1}{2}$ of the remaining is white and the remaining $3\frac{1}{2}$ cm is blue, find the total length of the pencil.

- a) 4 cm
- b) 6 cm
- c) 8 cm
- d) 12 cm

48. Find the maximum number of students among whom 1001 pens and 910 pencils can be distributed in such a way that each student gets the same number of pens and the same number of pencils?

- a) 91
- b) 910
- c) 1001
- d) 1911

49. 20 litres of a mixture contains milk and water in the ratio of 5 : 3. If four litres of this mixture is replaced by four litres of milk, then find the ratio of the milk to that of the water in the new mixture.

- a) 2 : 3
- b) 4 : 3
- c) 5 : 3
- d) 7 : 3

50. Three years ago X's age was double of Y's. Seven years hence, the sum of their united ages will be 83 years. The age of X today is:

- a) 47 years
- b) 35 years
- c) 45 years
- d) 24 years

**LOGICAL REASONING AND
ANALYTICAL ABILITY, GENERAL
MENTAL ABILITY**

51. If SEASONAL is written as ESSANOLA, how can SEPARATE be written in that code?

- a) SEAPARET
- b) ESPARATE
- c) ESPAARTE
- d) ESAPARET

52. A man started from a place, walked towards North for 5 km, then turned 90° to his right and walked another 5 km. Then he turned 45° to his right and walked 2 km and turned 45° to his left. What is his direction now?

- a) South
- b) South East
- c) East
- d) South West

53. Which of the given letter groups follows the same principle on which the numbers are arranged in the given number group?

[5, 8, 13, 20, 29]

- a) ACGKR
- b) ADIMS
- c) ADIPY
- d) ADGRO

54. From the given alternative words, select the word which cannot be formed using the letters of the given word.

ECCENTRICITY

- a) TRINITY
- b) TRICKY
- c) ENTER
- d) CENTRE

55. The day before the day before yesterday is three days after Saturday. What day is it today?

- a) Thursday
- b) Friday

23

Traffic SI

27.04.2023

30

ELIZ - 2024

Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

A

Question Booklet Series No:

165785

Time Allowed: 120 Minutes

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Maximum Marks: 100

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SEAL

ARITHMETIC

- Madan is as much younger than Bhartruhari as he is older than Nayan. If the sum of the ages of Nayan & Bhartruhari is 66 years, and Bhartruhari's age is 48 years, then what is Nayan's age?
 - 16
 - 18
 - 20
 - Cannot be determined
- Priyabrata takes 6 hours 30 min. going by a cycle and coming back by scooter. He would have lost 2 hours 10 min by going on cycle both ways. How long would it take him to go by scooter both ways?
 - 2 hrs
 - $4\frac{1}{3}$ hrs
 - $3\frac{1}{3}$ hrs
 - $5\frac{1}{3}$ hrs
- A train with 90km/h crosses a bridge in 36 seconds. Another train 100 metres shorter than previous crosses the same bridge at 45km/h. What is the time taken by the second train to cross the bridge?
 - 61 seconds
 - 62 seconds
 - 63 seconds
 - 64 seconds
- Two pipes Y and Z can fill a tank in 20 and 30 hours respectively. Both the pipes are opened to fill the tank but when the tank is $\frac{1}{3}$ rd full, a leak develops in the tank through which one-third water supplied by both the pipes goes out. The total time taken to fill the tank is:
 - 12 hours
 - 16 hours
 - 14 hours
 - 18 hours
- In a flight of 6000km, an aircraft was slowed down due to bad weather. The average speed for the trip was reduced by 400 kmph and the time of flight increased by 30 minutes. The original planned duration of the flight was:
 - $1\frac{1}{2}$ h
 - $3\frac{1}{2}$ h
 - $2\frac{1}{2}$ h
 - $4\frac{1}{2}$ h
- The average monthly salary paid to 75 workers in a factory is Rs 5,680. The average salary of 25 of them is Rs 5,400 and that of 30 others is Rs 5,700. The average salary of the remaining workers is :
 - Rs 5,000
 - Rs 7,000
 - Rs 6,000
 - Rs 8,000
- Find the lowest number which when divided by 8,12,15 and 20 leaves the remainder 2.
 - 360
 - 242
 - 122
 - 82
- Prerna and Tista are partners in a business. Prerna contributes $\frac{1}{4}$ of the capital for 15 months and Tista received $\frac{2}{3}$ of the profit. Find for how long Tista's money was used?
 - 6 months
 - 8 months
 - 10 months
 - 12 months
- Two men Badri and Swadhin started a job in which Badri was thrice as good as Swadhin and therefore took 60 days less than Swadhin to finish the job. How many days will they take to finish the job, if they start working together?
 - 15 days
 - 20 days

- c) $22\frac{1}{2}$ days
d) 25 days
10. An employer reduces the number of employees in the ratio 8 : 5 and increases their wages in the ratio 7 : 9 . As a result, the overall wages bill will be:
a) Increased in the ratio 56 : 69
b) Decreased in the ratio 56 : 45
c) Increased in the ratio 13 : 17
d) Decreased in the ratio 17 : 13
11. Tara borrowed Rs 5,000 from Tarini at 6% per annum in simple interest and lends it to Rudra at compound interest of 10% per annum . If Tara collects the money back from Rudra after 2 years and repays Tarini , the profit made by Tara in the transaction is :
a) Rs 600
b) Rs 1050
c) Rs 500
d) Rs 450
12. Find a number such that when 7 is subtracted from 3 times the number, the result is 9 more than twice the number.
a) 10
b) 12
c) 14
d) 16
13. A father is 7 years older than the mother and the mother's age now is 3 times the age of the daughter. The daughter is 10 years old now. What was the father's age when the daughter was born?
a) 27 years
b) 37 years
c) 15 years
d) 40 years
14. What will be the least number which when doubled will be exactly divisible by 12, 18, 21 and 30?
a) 196
- b) 1260
c) 2520
d) 630
15. Yajnaseni sold her watch for Rs 75 and got a percentage profit equal to the cost price. The cost price of the watch is:
a) Rs 40
b) Rs 45
c) Rs 50
d) Rs 55
16. During the first year the population of a village is increased by 5% and the second year it declined by 5%. At the end of the second year its population was 47880. What was the population at the beginning of the first year?
a) 45500
b) 48000
c) 43500
d) 53000
17. In an alloy, the ratio of copper and zinc is 5 : 2. If 1.250 kg of zinc is mixed in 17 kg 500 g of alloy, then the ratio of copper and zinc in the alloy will be:
a) 1 : 2
b) 2 : 1
c) 2 : 3
d) 3 : 2
18. Bineeta deposited same amount of money in two different banks, which pay simple interest at the rate of 10% and 12% respectively. After 3 years total interest received by her is Rs 3300. The total amount deposited is:
a) Rs 10,000
b) Rs 11,000
c) Rs 12,000
d) Rs 12,250
19. Madhumita has some hens and some cows. If the total number of animal heads is 59 and the total number of feet is 190, how many cows does Madhumita have?

- a) 2
- b) 36
- c) 40
- d) Can't be determined

20. The length of a train and that of a platform are equal. If with a speed of 90 km/hr, the train crosses the platform in one minute, then the length of the train (in m) is:

- a) 500
- b) 600
- c) 750
- d) 900

21. If the difference between the compound interest and simple interest on a sum at 5% rate of interest per annum for three years is Rs 36.60, then the sum is:

- a) Rs 8000
- b) Rs 8400
- c) Rs 4400
- d) Rs 4800

22. A boat goes 30 km upstream and 44 km downstream in 10 hours. In 13 hours, it can go 40 km upstream and 55 km downstream. The speed of the boat in still water is:

- a) 8 km/hr
- b) 3 km/hr
- c) 4 km/hr
- d) None of the above

23. Working 8 hours a day, 120 persons can dig a canal 162m long, 12 m wide and 2 m deep in 8 days. Working 6 hours a day, the number of persons that will be required to dig a canal 729m long, 10m wide and 3m deep in 32 days is:

- a) 250
- b) 175
- c) 200
- d) 225

24. A trader marked the selling price of an article at 20% above the cost price. At the

time of selling, he allows certain discount and suffer a loss of 4%. He allowed the discount of:

- a) 20%
- b) 25%
- c) 24%
- d) 22%

25. Ashok takes twice as much time as Arun and thrice as much time as Alok to finish a piece of work. They together finish the work in one day. Ashok can finish the work in :

- a) 4 days
- b) 2 days
- c) 6 days
- d) 3 days

26. The average weight of the students in four sections A, B, C and D is 60 kg. The average weight of the students of A, B, C and D individually are 45 kg, 50 kg, 72 kg and 80 kg respectively. If the average weight of the students of section A and B together is 48 kg and that of B and C together is 60 kg, what is the ratio of the number of students in sections A and D?

- a) 12: 7
- b) 4:3
- c) 3: 2
- d) 8: 5

27. By how much is $\frac{3}{4}$ of 968 less than $\frac{7}{8}$ of 1008?

- a) 146
- b) 154
- c) 165
- d) None of the above

28. A total of 324 coins of 20 paise and 25 paise make a sum of Rs.71. The number of 25 paise coins is:

- a) 120
- b) 124
- c) 144
- d) 200

29. A sum of Rs 11000 was taken as loan. This is to be repaid in two equal annual instalments. If the

rate of interest by 20% compounded annually, then the value of each instalment is:

- a) Rs 7500
- b) Rs 7000
- c) Rs 7100
- d) Rs 7200

30. Out of two sections A and B, 10 students of section B shift to A, as a result strength of A becomes 3 times the strength of B. But if 10 students shift over from A to B, both A and B become equal in strength.

Ratio of the number of students in section A to that of section B is:

- a) 2 : 1
- b) 5 : 3
- c) 3 : 1
- d) 9 : 4

LOGICAL REASONING

31. From the given options, choose the word which cannot be formed using the letters of the word: LEGALIZATION.

- a) ALERT
- b) ALEGATION
- c) GALLANT
- d) NATAL

32. What should come in place of the blank in the following number series:

3, 15, ____, 63, 99, 143 ?

- a) 30
- b) 35
- c) 40
- d) 45

33. Here are some words translated from an artificial language.

- i. agnoscrenia means poisonous spider.
- ii. delanocrenia means poisonous snake.
- iii. agnosdeery means brown spider.

Which word could mean "black widow spider"?

- a) deeryclostagnos

- b) agnosvitriblunin
- c) agnosdelano
- d) trymuttiagnos

34. Find the odd letters from the given options.

- a) PQXZ
- b) CQBN
- c) ABDF
- d) PRMN

35. Select the related number from the given options to fill the blank in

3265 : 4376 :: 4673 : ____

- a) 2154
- b) 3562
- c) 5487
- d) 5784

36. Fill the gap in the series:

ELFA, GLHA, ILJA, ____, MLNA

- a) OLPA
- b) KLLA
- c) KLMA
- d) LLMA

37. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

__ tu __ rt __ s __ usrtu __

- a) rsurts
- b) rtusru
- c) rsutrr
- d) rsurtr

38. In a certain code language, if "RAFT" is written as 180 and "DON" is written as 99, then how will "SHOWER" be written in the same language ?

- a) 528
- b) 448
- c) 325
- d) 265

39. Select the option in which the words share the same relationship as that shared by the given pair of words.

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CTS (Civil JE)

18.05.2025

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Do not open the Seal of the Question Booklet until you are asked to

Question Booklet Code:

A

Question Booklet Series No:

165785

Time Allowed: 120 Minutes

Total Questions: 100

Maximum Marks: 100

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers

Before answering any question, check the booklet that it contains 16 Pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

1. Fill in the OMR answer sheet, mentioning your Roll No. and other data as required in the place(s) indicated therein. Darken the appropriate circles in blue or black ball point pen only. Do not write any name / surname or put any symbol, sign, slogan, prayer or any mark of identification in the OMR answer sheet. Do not tamper with the bar-code or any other portion of the OMR answer sheet. Any such act is liable to render the answer sheet unfit for evaluation.
2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be expelled from the examination without any enquiry as to whether the same was / were used by the candidate or not.
3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information furnished by you is incomplete or different from what you have given in the application form, you shall be awarded Zero mark.
4. Answer must be given by completely darkening one of the four circles / ovals representing the most appropriate answer given on the Answer Sheet corresponding to the relevant question. For answers not shown by properly darkening in black / blue ball point pen, no marks shall be awarded.
5. No Rough work should be done on the OMR Answer Sheet. Space for rough work has been provided in the Question Booklet itself.
6. After the examination is over, candidates must ensure to fold the OMR Answer Sheet at the perforation and separate the Original Copy and Candidate's Copy of the Two Part OMR Answer Sheet in the presence of the Invigilator and handover the Original Copy to the Invigilator. The Candidate's Copy of the OMR Answer sheet may be taken by the candidate. Failure to hand over the original copy of the OMR Answer Sheet to the Invigilator before leaving the examination hall / room shall make the candidate liable for penal action.
7. Candidates may take with them the respective question-booklet after the examination is over.
8. Failure to comply with or violation of any of the above instructions shall be considered as adopting unfair means and action as deemed proper shall be taken.
9. Each question has four options. The candidate should select best option among the four.

SEAL

- c) FTP protocol
d) IRC
78. Which of the following is an internet connection option?
a) Dial-up connection
b) Digital subscriber line
c) Satellite
d) All of the above
79. Which of the following is not related to information security on the internet?
a) Data encryption
b) Watermarking
c) Data hiding
d) Information retrieval
80. Which of the following is not a network device?
a) Router
b) Switch
c) Hub
d) BIOS
81. The protocol dealing with transfer of hypertext between two or more computers is:
a) HTML
b) FTP
c) HTTP
d) TCP
82. IRC stands for:
a) Internet Related Chat
b) Internet Relay Chat
c) Internet Related Content
d) None of the above
83. Which of these is not an internet browser?
a) Netscape Navigator
b) Chrome
c) Megatron
d) Opera
84. Which one of the following is a search engine?
a) Macromedia
b) Bing
c) Netscape
d) Macintosh
85. Telnet is :
a) A telephone network
b) A teller network
c) Standard internet protocol for remote login
d) Dialup program
86. Which programming language is used for web development?
a) Algol
b) Java
c) HTML
d) COBOL
87. What is phishing?
a) A way to catch fish online
b) A type of virus
c) A method to extract user information through fake websites
d) A software to scan email
88. Which of these is not a valid email domain?
a) .com
b) .edu
c) .gov
d) .www
89. Which unit is used to measure the speed of a processor?
a) Hertz
b) Byte
c) Pixel
d) Bit
90. Which file extension is typically associated with a webpage?
a) .docx
b) .html
c) .exe
d) .xls

ARITHMETIC

91. If 15% of S is same as 21% of T, then 12.5% of S is equal to what per cent of T?
a) 20%
b) 17.5%
c) 12.5%
d) 9.5%

92. What is the angle between the minute hand and the hour hand of a clock when the time is 8.30 A.M. ?
- 45°
 - 60°
 - 75°
 - 80°
93. From a point on a circular track 5 km long, three people U, V and W started running in the same direction at the same time with speeds of $2\frac{1}{2}$ km/hour, 3 km/hour and 2 km/hour respectively. Then after how many hours, will they meet again at the starting point ?
- 4 hours
 - 6 hours
 - 10 hours
 - 15 hours
94. $\frac{5}{9}$ th of a number is equal to 25% of the second number. The second number is $\frac{1}{4}$ th of the third number. If the value of the third number is 2960, then what is 30% of the first number ?
- 77.7
 - 88.8
 - 99.9
 - 100
95. 4 bells ring at intervals of 30 minutes, 1 hour, 1 hour 30 minutes and 1 hour 45 minutes, respectively. If all the bells ring simultaneously at 12 noon, then they will again ring simultaneously at:
- 12 mid night
 - 9 A.M. the next day
 - 6 A.M. the next day
 - 3 A.M. the next day
96. Akanksha purchased several numbers of three articles E, F and G in the proportion 3 : 2 : 3. If the unit costs of the articles E, F and G are Rs.200, Rs.90 and Rs.60 respectively, then how many articles of F must have been purchased in the total purchases of Rs.4, 800 ?
- 10
 - 11
 - 12
 - 14
97. Tarang has two urns A and B. Both these urns have some pebbles. If 20 pebbles from urn B are shifted to urn A, then the number of pebbles in each urn become interchanged. But, if 10 pebbles from urn A are put into urn B, then number of pebbles in B is twice the number in A. How many pebbles do A and B have respectively?
- 50 and 70
 - 60 and 40
 - 70 and 90
 - 80 and 100
98. It was intended to divide Rs.585 among C, D and E in the ratio of 4 : 3 : 2, but by mistake the distribution was made in the proportion of $\frac{1}{4} : \frac{1}{3} : \frac{1}{2}$. How much does E gain by this error?
- Rs.99
 - Rs.126
 - Rs.140
 - Rs.152
99. The number 243 is divided into three parts in such a way that one third of the first part, one fourth of the second part and half of the third part are equal. Then what is the largest part ?
- 110
 - 108
 - 86
 - 74
100. Abhinandan's initial expenditure and savings were in the ratio of 5 : 3. If his income increases by 25% and the initial savings were Rs.4,500, what is his income after the increment ?
- Rs.9, 000
 - Rs.11, 000
 - Rs.12, 000
 - Rs.15, 000
101. In a race, Rupesh beats Paresh by 15 metres and Rajesh by 29 metres. If Paresh and Rajesh run over the course together and Paresh wins by 15 metres, then what is the length of the course?
- 235 metres
 - 225 metres
 - 190 metres
 - 170 metres

102. There are 576 boys and 448 girls in a school. If they are to be divided into equal sections of either boys or girls alone, what would be the total number of sections?

- a) 16
- b) 20
- c) 24
- d) 30

103. A bird lover was asked how many birds he had in the basket. He replied that there were all robins but six, all sparrows but six, and all parrots but six. How many birds did he have in the basket in all?

- a) 18
- b) 14
- c) 10
- d) 9

104. To write the number of pages in a book, the digit 1 is used exactly 136 times. Find the number of pages in the book.

- a) 220
- b) 208
- c) 195
- d) 192

105. After dividing a number successively by 3, 4 and 7, the remainders obtained are 2, 1 and 4 respectively. What will be the remainder, if the same number is divided by 84?

- a) 83
- b) 73
- c) 63
- d) 53

106. Average age of 8 persons of a team is 22.5 years, out which A is 4 years older to B. 2 years ago, the average age of team excluding the age of A and B was 20 years. What will be the ratio of the ages of A and B, respectively after 6 years from present?

- a) 7 : 6
- b) 9 : 8
- c) 7 : 8
- d) 8 : 7

107. A's income is $16\frac{2}{3}\%$ less than that of C's, while B's income is Rs.400 more than that of A. If the average of A's and C's income is Rs.175 less than that of B's income, then the income of A is:

- a) Rs.2, 250
- b) Rs.2, 215
- c) Rs.2, 125
- d) Rs.2, 075

108. Nazim started his journey in the morning. At 11 A.M., he covered $\frac{3}{8}$ of his journey and on the same day at 4.30 P.M., he covered $\frac{5}{6}$ of the journey. At what time in the morning did he start his journey (assuming his speed as constant throughout)?

- a) 5.30 A.M.
- b) 6.00 A.M.
- c) 6.30 A.M.
- d) 7.00 A.M.

109. If 3 construction workers can do a work in 2 days and 4 factory workers can do the same work in 6 days, then in how many days will the same work be completed by 8 construction workers and 8 factory workers?

- a) 2 days
- b) $1\frac{1}{2}$ days
- c) $\frac{3}{4}$ days
- d) $\frac{3}{5}$ days

110. Bidusmita sees a thief at a distance of 80 meters. She starts chasing the thief who ran at a speed of 5 meters/second. If she chased him with a speed of 7 meters/second, then how much distance does the thief covers before Bidusmita catches him?

- a) 200 meters
- b) 130 meters
- c) 100 meters
- d) 95 meters

111. The monthly incomes of Madhu, Hari and Sita are in the ratio 2 : 9 : 3 and their expenses are in the ratio 3 : 9 : 5. If Madhu's saving is half of his total income, then savings of Madhu, Hari and Sita are respectively, in the ratio of :

- a) 3 : 9 : 2
- b) 2 : 5 : 2
- c) 3 : 18 : 4
- d) 1 : 2 : 1

112. A bottle contains $\frac{3}{4}$ th of milk and the rest water. How much of the mixture must be taken out and replaced by an equal quantity of water, so that the mixture has half milk and half water?

- a) 25%
- b) 33.33%
- c) 45%
- d) 66.67%

113. Ritika sold an article to Ruhaan at a profit of 10%. Ruhaan sold that article to Mohan at a profit of 12%. Mohan sold that article to Sanjay at a loss of 20%. Sanjay again sold that article to Ritika at a profit of 5%. Overall, what was the approximate percentage of profit/loss for Ritika?

- a) 13% loss
- b) 6.29% profit
- c) 7% loss
- d) 4.12% profit

114. Two trains A and B cross the same platform in 18 and 24 seconds, respectively. The respective length of trains A and B is 240 metres and 210 metres. If the ratio of their speeds is 3 : 2, then what is the length of platform?

- a) 20 metres
- b) 25 metres
- c) 30 metres
- d) 35 metres

115. The marked price of a watch was Rs.820. A man bought the same watch for Rs.570.72 after getting two successive discounts, of which the first was 20%. What was the second discount?

- a) 18%
- b) 17%
- c) 15%
- d) 13%

116. A man can swim 3 km/hour in still water. If the speed of the stream is 2 km/hour, then the time taken by him to swim to a place 10 km upstream and back is:

- a) $9\frac{1}{3}$ hours
- b) 10 hours
- c) 11 hours
- d) 12 hours

117. Pipe A can fill a tank in 38 hours. Pipe B alone can fill it in 19 hours. Pipe C can empty the full tank in 133 hours. If all the pipes are opened together, then how much time will be needed to make the tank full?

- a) 28 hours
- b) 18 hours
- c) 14 hours
- d) $10\frac{1}{3}$ hours

118. Ranjit got married 8 years ago. His present age is $\frac{6}{5}$ times his age at the time of marriage. If Ranjit's sister was 10 years younger to him at the time of his marriage, then what is present age of his sister?

- a) 38 years
- b) 36 years
- c) 35 years
- d) 32 years

119. If 8th February, 2005 was Tuesday, then what was the day of the week on 8th February, 2004?

- a) Monday
- b) Wednesday
- c) Friday
- d) Sunday

120. A woman says, "If you reverse my own age, the figures represent my husband's age. He is senior to me and the difference between our ages is $\frac{1}{11}$ th of their sum." The age of the woman is:

- a) 48 years
- b) 45 years
- c) 42 years
- d) 34 years

23

Comb Stereo

27.07.2025

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- b) Koraput
- c) Malkangiri
- d) Mayurbhanj

- b) କୋରାପୁଟ
- c) ମାଲକାନଗିରି
- d) ମୟୂରଭଞ୍ଜ

108. Which of the following is not a type of Odissi music?

- a) Dhruwad
- b) Chhanda
- c) Bhajanpadi
- d) Champu

108. ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ପ୍ରକାର ଓଡ଼ିଶୀ ସଙ୍ଗୀତ ନୁହେଁ?

- a) ଧ୍ରୁପଦ
- b) ଛନ୍ଦ
- c) ଭଜନପଦୀ
- d) ଚମ୍ପୁ

109. The Prahallad Nataka is a traditional theatre form of:

- a) Khordha
- b) Ganjam
- c) Cuttack
- d) Puri

109. ପ୍ରହଲ୍ଲାଦ ନାଟକ ହେଉଛି ଏଠାକାର ଏକ ପାରମ୍ପରିକ ନାଟ୍ୟ ଶୈଳୀ:

- a) ଖୋର୍ଦ୍ଧା
- b) ଗଞ୍ଜାମ
- c) କଟକ
- d) ପୁରୀ

110. Rasagola Dibasa is celebrated on which day related to Lord Jagannath?

- a) Snana Purnima
- b) Adhara Pana
- c) Niladri Bije
- d) Bahuda Yatra

110. ରସଗୋଲା ଦିବସ ମହାପ୍ରଭୁ ଜଗନ୍ନାଥଙ୍କ ସହ ଜଡ଼ିତ କେଉଁ ଦିବସରେ ପାଳନ କରାଯାଏ ?

- a) ସ୍ନାନ ପୂର୍ଣ୍ଣିମା
- b) ଅଧର ପଣା
- c) ନୀଳାଦ୍ରି ବିଜେ
- d) ବାହୁଡ଼ା ଯାତ୍ରା

ARITHMETIC

111. Anirban sold two cars for Rs 9900 each, making 10% profit on one and losing 10% on the other. His gain or loss percent on the two cars is:

- a) No gain, no loss
- b) Loss of 1%
- c) Gain of 1%
- d) Gain of 5%

ARITHMETIC

111. ଅନିର୍ବାଣ ଦୁଇଟି କାର୍ ପ୍ରତ୍ୟେକକୁ ୯୯୦୦ ଟଙ୍କାରେ ବିକ୍ରି କଲେ ଏବଂ ଗୋଟିକରେ ୧୦% ଲାଭ ଏବଂ ଅନ୍ୟଟିରେ ୧୦% କ୍ଷତି ସହିଲେ । ଦୁଇଟି କାର୍ ଉପରେ ତାଙ୍କର ଶତକଡ଼ା ଲାଭ କିମ୍ବା କ୍ଷତି ପ୍ରତିଶତ ହେଉଛି:

- a) ଲାଭ ନାହିଁ, କ୍ଷତି ନାହିଁ
- b) ୧% କ୍ଷତି
- c) ୧% ବୃଦ୍ଧି
- d) ୫% ବୃଦ୍ଧି

112. The average score of a class of boys and girls in an examination is A. The ratio of boys and girls in the class is 3:1. If the average score of the boys is A+1, the average score of the girls is:

- a) A-1
- b) A-3
- c) A+1
- d) A+3

112. ଏକ ପରୀକ୍ଷାରେ ବାଳକ ଓ ବାଳିକାଙ୍କର ଶ୍ରେଣୀର ହାରାହାରି ସ୍କୋର A । ଶ୍ରେଣୀରେ ବାଳକ ଓ ବାଳିକାଙ୍କର ଅନୁପାତ ୩:୧ । ଯଦି ବାଳକଙ୍କର ହାରାହାରି ସ୍କୋର A+୧ ହୁଏ, ତେବେ ବାଳିକାଙ୍କର ହାରାହାରି ସ୍କୋର ହେବ:

- a) A-୧
- b) A-୩
- c) A+୧
- d) A+୩

113. If the product of three consecutive integers is 120, the sum of the integers is:

- a) 9
- b) 12
- c) 14
- d) 15

114. If a number of two digits is k times the sum of its digits, the number formed by interchanging the digits is the sum of the digits multiplied by:

- a) $k-1$
- b) $11-k$
- c) $9+k$
- d) $10-k$

115. In a Mathematics examination the number scored by 5 candidates are 5 successive odd integers. If their total marks are 185, the highest score is:

- a) 39
- b) 43
- c) 41
- d) 47

116. X's age 3 years ago was three times the present age of Y. At present, Z's age is twice the age of Y. Also, Z is 12 years younger than X. What is the present age of Z?

- a) 15 years
- b) 24 years
- c) 12 years
- d) 18 years

117. If $z = \frac{x^2}{y}$ and x, y both are increased in value by 10%, find the percentage change in the value of z .

- a) 8%
- b) 10%
- c) 12%
- d) 16%

113. ଯଦି ତିନୋଟି କ୍ରମିକ ଅଙ୍କଗୁଡ଼ିକର ପ୍ରତ୍ୟେକ ୧୨୦ ହୁଏ, ତେବେ ଅଙ୍କଗୁଡ଼ିକର ସମଷ୍ଟି ହେଉଛି:

- a) ୯
- b) ୧୨
- c) ୧୪
- d) ୧୫

114. ଯଦି ଦୁଇ ଅଙ୍କ ବିଶିଷ୍ଟ ଏକ ସଂଖ୍ୟା, ଏହାର ଅଙ୍କଗୁଡ଼ିକର ସମଷ୍ଟିର k ଗୁଣ ହୁଏ, ତେବେ ଅଙ୍କଗୁଡ଼ିକର ଅଦଳ ବଦଳ ଦ୍ୱାରା ହୋଇଥିବା ସଂଖ୍ୟା, ଅଙ୍କଗୁଡ଼ିକର ସମଷ୍ଟି ସହ ଏତିକି ଗୁଣନ କଲେ ସମାନ ହେବ:

- a) $k-୧$
- b) $୧୧-k$
- c) $୯+k$
- d) $୧୦-k$

115. ଏକ ଗଣିତ ପରୀକ୍ଷାରେ ୫ ଜଣ ପ୍ରାର୍ଥୀଙ୍କ ଦ୍ୱାରା ଖୋର କରାଯାଇଥିବା ସଂଖ୍ୟା ହେଉଛି ୫ଟି କ୍ରମିକ ଅଯୁଗ୍ମ ପୂର୍ଣ୍ଣସଂଖ୍ୟା । ଯଦି ସେମାନଙ୍କର ସମୁଦାୟ ମାର୍କ ୧୮୫ ହୁଏ, ସର୍ବାଧିକ ଖୋର ହେବ:

- a) ୩୯
- b) ୪୩
- c) ୪୧
- d) ୪୭

116. ୩ ବର୍ଷ ପୂର୍ବେ X ର ବୟସ Y ର ବର୍ତ୍ତମାନ ବୟସର ୩ ଗୁଣ ଥିଲା । ବର୍ତ୍ତମାନ, Z ର ବୟସ, Y ର ବୟସର ଦୁଇଗୁଣ । ଆଜମଧ୍ୟ Z, X ଠାରୁ ୧୨ ବର୍ଷ ଛୋଟ ଅଟେ । Z ର ବର୍ତ୍ତମାନର ବୟସ କେତେ?

- a) ୧୫ ବର୍ଷ
- b) ୨୪ ବର୍ଷ
- c) ୧୨ ବର୍ଷ
- d) ୧୮ ବର୍ଷ

117. ଯଦି $z = \frac{x^2}{y}$ ହୁଏ, ଏବଂ x ଓ y ଉଭୟର ମୂଲ୍ୟ ୧୦% ବୃଦ୍ଧି ହୁଏ, z ର ମୂଲ୍ୟରେ ଶତକଡ଼ା ପାର୍ଥକ୍ୟ ବାହାର କରନ୍ତୁ ।

- a) ୮%
- b) ୧୦%
- c) ୧୨%
- d) ୧୬%

118. A and B are two fixed points 5cm apart and C is a point on AB such that AC is 3cm. If the length of AC is increased by 6%, the length of CB is decreased by:

- a) 6%
- b) 7%
- c) 8%
- d) 9%

119. If an article is sold for Rs x, there is a loss of 15%. If the same article is sold for Rs y, there is a profit of 15%. The ratio of (y-x) to (y+x) is:

- a) 3 : 20
- b) 20 : 3
- c) 17 : 23
- d) 20 : 23

120. A jar contains black and white marbles. If there are ten marbles in the jar, which of the following could not be the ratio of black to white marbles?

- a) 1 : 4
- b) 1 : 10
- c) 7 : 3
- d) 9 : 1

121. A, B and C are boxes containing marbles in the ratio 1 : 2 : 3. Total number of marbles is 60. The above ratio can be changed to 3 : 4 : 5 by transferring:

- a) 2 marbles from A to B and 1 from C to B
- b) 3 marbles from B to C
- c) 4 marbles from C to B
- d) 5 marbles from C to A

122. Instead of dividing Rs 117 among P, Q, R in the ratio $1/2 : 1/3 : 1/4$, by mistake it was divided in the ratio 2:3:4. Who gained in the transaction?

- a) Only P
- b) Only Q

118. ୫ ସେମି ଦୂରତାରେ ଥିବା A ଏବଂ B ଦୁଇଟି ଛିର ବିନ୍ଦୁ ଏବଂ C, AB ଉପରେ ଥିବା ଏକ ବିନ୍ଦୁ ଯେପରିକି AC ହେଉଛି ୩ ସେମି. । ଯଦି AC ର ଦୈର୍ଘ୍ୟରେ ୬% ବୃଦ୍ଧି ହୁଏ, CB ର ଦୈର୍ଘ୍ୟରେ ହ୍ରାସ ହେବ:

- a) ୬%
- b) ୭%
- c) ୮%
- d) ୯%

119. ଯଦି ଏକ ପଦାର୍ଥ x ଟଙ୍କାରେ ବିକ୍ରି ହୁଏ, ୧୫% କ୍ଷତି ହୁଏ । ସମାନ ପଦାର୍ଥଟିକୁ y ଟଙ୍କାରେ ବିକ୍ରି କରାଗଲେ, ୧୫% ଲାଭ ହୁଏ । (y-x) ଏବଂ (y+x) ମଧ୍ୟରେ ଅନୁପାତ ହେବ:

- a) ୩ : ୨୦
- b) ୨୦ : ୩
- c) ୧୭ : ୨୩
- d) ୨୦ : ୨୩

120. ଏକ ଜାରରେ କଳା ଓ ଧଳା ମାର୍ବଲଗୁଡ଼ିକ ଅଛି । ଯଦି ଜାରରେ ୧୦ଟି ମାର୍ବଲ ଥାଏ, ତେବେ ନିମ୍ନ ମଧ୍ୟରୁ କେଉଁଟି କଳା ଓ ଧଳା ମାର୍ବଲଗୁଡ଼ିକ ମଧ୍ୟରେ ଅନୁପାତ ହୋଇପାରିବ ନାହିଁ?

- a) ୧ : ୪
- b) ୧ : ୧୦
- c) ୭ : ୩
- d) ୯ : ୧

121. A, B ଏବଂ C ବାକ୍ସଗୁଡ଼ିକରେ ୧ : ୨ : ୩ ଅନୁପାତରେ ମାର୍ବଲଗୁଡ଼ିକ ଅଛି । ସମୁଦାୟ ମାର୍ବଲଗୁଡ଼ିକର ସଂଖ୍ୟା ୬୦ । ଏତିକି ମାର୍ବଲ ସ୍ଥାନାନ୍ତର କରାଗଲେ ଉପରଲିଖିତ ଅନୁପାତଟି ୩ : ୪ : ୫ ଅନୁପାତକୁ ବଦଳାଯାଇପାରିବ:

- a) A ରୁ B କୁ ୨ଟି ମାର୍ବଲ ଏବଂ C ରୁ B କୁ ୧ଟି ମାର୍ବଲ
- b) B ରୁ C କୁ ୩ଟି ମାର୍ବଲ
- c) C ରୁ B କୁ ୪ଟି ମାର୍ବଲ
- d) C ରୁ A କୁ ୫ଟି ମାର୍ବଲ

122. P, Q, R ମଧ୍ୟରେ ୧/୨ : ୧/୩ : ୧/୪ ଅନୁପାତରେ ୧୧୭ ଟଙ୍କା କୁ ଭାଗ କରିବା ବଦଳରେ, ଭୁଲକ୍ରମେ ଏହା ୨:୩:୪ ଅନୁପାତରେ ଭାଗ କରାଗଲା । କାରବାରରେ କିଏ ଲାଭକଲା?

- a) କେବଳ P
- b) କେବଳ Q

- c) Only R
 d) Both Q and R

123. X and Y are partners in a business. X contributed $\frac{1}{3}$ of the capital for 9 months and Y received $\frac{2}{5}$ of the profits. For how long was Y's money used in the business?
- a) 2 months
 b) 3 months
 c) 4 months
 d) 5 months

124. 2 men and 7 boys can do a piece of work in 14 days; 3 men and 8 boys can do the same in 11 days. Then, 8 men and 6 boys can do three times the amount of this work in:
- a) 18 days
 b) 21 days
 c) 24 days
 d) 30 days

125. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?
- a) 20 hrs
 b) 25 hrs
 c) 35 hrs
 d) 40 hrs

126. Partha goes three equal distances, each of length x km with a speed of y km/hr, $\frac{3y}{5}$ km/hr and $\frac{2y}{5}$ km/hr respectively. If the total time taken is 1 hour, then $x:y$ is equal to:
- a) 6 : 13
 b) 6 : 23
 c) 6 : 31
 d) 6 : 37

- c) କେବଳ R
 d) ଉଭୟ Q ଏବଂ R

123. ଏକ ବ୍ୟବସାୟରେ X ଓ Y ଅଂଶୀଦାର । X ମୂଳଧନର $\frac{1}{3}$ ଅଂଶ ୯ ମାସ ପାଇଁ କର୍ତ୍ତୃତ୍ୱ୍ୟ କଲା ଏବଂ Y ଲାଭାଂଶର $\frac{2}{5}$ ଅଂଶ ଗ୍ରହଣ କଲା । ବ୍ୟବସାୟରେ Y ର ଟଙ୍କା କେତେ ମାସ ପାଇଁ ବ୍ୟବହାର ହୋଇଥିଲା ?
- a) ୨ ମାସ
 b) ୩ ମାସ
 c) ୪ ମାସ
 d) ୫ ମାସ

124. ୨ ଜଣ ପୁରୁଷ ଓ ୭ ଜଣ ବାଳକ ଏକ କାମକୁ ୧୪ ଦିନରେ କରିପାରିବେ; ୩ ଜଣ ପୁରୁଷ ଓ ୮ ଜଣ ବାଳକ ସମାନ କାମକୁ ୧୧ ଦିନରେ କରିପାରିବେ । ତେବେ ୮ ଜଣ ପୁରୁଷ ଓ ୬ ଜଣ ବାଳକ ଏହି କାମର ପରିମାଣର ତିନିଗୁଣ ଏତିକି ଦିନରେ କରିପାରିବେ:
- a) ୧୮ ଦିନ
 b) ୨୧ ଦିନ
 c) ୨୪ ଦିନ
 d) ୩୦ ଦିନ

125. A, B ଓ C ତିନୋଟି ପାଇପଦ୍ୱାରା ଏକ ଟ୍ୟାଙ୍କ ୫ ଘଣ୍ଟାରେ ପୂର୍ଣ୍ଣ ହୋଇପାରେ । C ପାଇପ, B ର ଦୁଇଗୁଣ ବେଗରେ ଏବଂ B ପାଇପ A ର ଦୁଇଗୁଣ ବେଗରେ କାମ କରେ । ଟ୍ୟାଙ୍କଟିକୁ ପୂର୍ଣ୍ଣ କରିବା ପାଇଁ A ଏକା କେତେ ସମୟ ନେବ?
- a) ୨୦ ଘଣ୍ଟା
 b) ୨୫ ଘଣ୍ଟା
 c) ୩୫ ଘଣ୍ଟା
 d) ୪୦ ଘଣ୍ଟା

126. ପାର୍ଥ ପ୍ରତ୍ୟେକ x କିମି ଦୈର୍ଘ୍ୟ ଥିବା ୩ଟି ସମଦୂରତା ଥିବା ଦୂରତାଗୁଡ଼ିକୁ ଯଥାକ୍ରମେ ଘଣ୍ଟାକୁ y କିମି, $\frac{3y}{5}$ କିମି ଏବଂ $\frac{2y}{5}$ କିମି ବେଗରେ ଅତିକ୍ରମ କରେ । ଯଦି ନିଆଯାଇଥିବା ସମୁଦାୟ ସମୟ ଏକ ଘଣ୍ଟା ହୁଏ, ତେବେ $x : y$ ଏହା ସହ ସମାନ ହେବ:
- a) ୬ : ୧୩
 b) ୬ : ୨୩
 c) ୬ : ୩୧
 d) ୬ : ୩୭

127. Rimjhim performs $\frac{2}{15}$ of the total journey by rail, $\frac{9}{20}$ by bus and the remaining 10 km on cycle. Her total journey is:

$$\frac{2}{15} + \frac{9}{20} + 10$$

- a) 31km
- b) 38.4 km
- c) 32 km
- d) 24 km

128. If a man goes 18 km downstream in 4 hours and returns against the stream in 12 hours, the speed of the stream in km/hr is:

- a) 1
- b) 1.5
- c) 1.75
- d) 3

129. A train passes two bridges of lengths 500m and 250m in 100 seconds and 60 seconds respectively. The length of the train is :

- a) 152m
- b) 125m
- c) 250m
- d) 120m

130. A milkman mixed some water with milk to gain 25% by selling the mixture at the cost price. The ratio of water and milk is respectively :

- a) 5 : 4
- b) 4 : 5
- c) 1 : 5
- d) 1 : 4

131. A sum becomes its double in 10 years. Find the annual rate of simple interest.

- a) 8%
- b) 5%
- c) 10%
- d) 20%

127. ରିମଜିମ୍ ସମୁଦାୟ ଯାତ୍ରାର $\frac{2}{15}$ ଅଂଶ ରେଳରେ, $\frac{9}{20}$ ଅଂଶ ବସ୍ ରେ ଏବଂ ବକଳା ୧୦ କିମି. ସାଇକେଲରେ ଯାତ୍ରା କଲେ । ତାଙ୍କର ସମୁଦାୟ ଯାତ୍ରାର ଦୂରତା ହେବ:

- a) ୩୧ କିମି
- b) ୩୮.୪ କି.ମି.
- c) ୩୨ କି.ମି.
- d) ୨୪ କି.ମି.

128. ଯଦି ଜଣେ ବ୍ୟକ୍ତି ଅନୁକୂଳ ପ୍ରୋତରେ ୧୮ କି.ମି. ୪ ଘଣ୍ଟାରେ ଯାତ୍ରା କରେ ଏବଂ ପ୍ରତିକୂଳ ପ୍ରୋତରେ ୧୨ ଘଣ୍ଟାରେ ଫେରେ, ତେବେ ପ୍ରୋତଟିର କି.ମି./ଘଣ୍ଟାରେ ବେଗ ହେବ:

- a) ୧
- b) ୧.୫
- c) ୧.୭୫
- d) ୩

129. ଏକ ଟ୍ରେନ ୫୦୦ ମି.ଓ ୨୫୦ ମି. ଲମ୍ବତ୍ୱବା ଦୁଇଟି ପୋଲକୁ ଯଥାକ୍ରମେ ୧୦୦ ସେକେଣ୍ଡ ଏବଂ ୬୦ ସେକେଣ୍ଡରେ ଅତିକ୍ରମ କରେ । ଟ୍ରେନଟିର ଲମ୍ବ ହେଉଛି:

- a) ୧୫୨ମି
- b) ୧୨୫ମି
- c) ୨୫୦ମି
- d) ୧୨୦ମି

130. ଏକ କ୍ଷୀରବାଲା କ୍ରୟମୂଲ୍ୟରେ ମିଶ୍ରଣକୁ ବିକିବା ପାଇଁ ୭୫% ଲାଭ ପାଇଁ କ୍ଷୀର ସହ କିଛି ଜଳ ମିଶାଇଲା । ଜଳ ଏବଂ କ୍ଷୀରର ଅନୁପାତ ଯଥାକ୍ରମେ ହେବ:

- a) ୫ : ୪
- b) ୪ : ୫
- c) ୧ : ୫
- d) ୧ : ୪

131. ଏକ ରାଶି ୧୦ ବର୍ଷରେ ଏହାର ଦୁଇଗୁଣ ହୁଏ । ସରଳ ସୁଧର ବାର୍ଷିକ ହାର ନିର୍ଣ୍ଣୟ କର ।

- a) ୮%
- b) ୫%
- c) ୧୦%
- d) ୨୦%

132. A boy on being asked to multiply a fraction by $\frac{3}{4}$ made the mistake of dividing it by $\frac{3}{4}$ and got an answer which exceeded the correct answer by $\frac{35}{81}$. Find the correct answer.

- a) $\frac{5}{9}$
- b) $\frac{4}{7}$
- c) $\frac{2}{9}$
- d) $\frac{2}{7}$

133. Five bells begin to toll together and toll respectively at intervals of $1\frac{1}{8}$, $1\frac{1}{2}$, $1\frac{3}{8}$, $1\frac{3}{4}$ and $2\frac{1}{4}$ seconds. How many times will they toll together in an hour?

- a) 9
- b) 11
- c) 13
- d) 15

134. The population of a town increases at the rate of 5% every year. The present population is 8000. When will it have 9261 inhabitants?

- a) 2 years
- b) 3 years
- c) 5 years
- d) 7 years

135. In an examination, 70% of the candidates passed in English and 65% in Mathematics; while 15% failed in both the subjects. If 270 candidates passed in both the subjects, find the total number of candidates.

- a) 480
- b) 510
- c) 540
- d) 560

136. When the rate of interest in a bank is reduced from $2\frac{1}{2}\%$ to 2%, a man withdraws Rs 400 from his deposit. If the annual interest now received by him is Rs 12.50 P less than before, find his original deposit.

- a) Rs 750
- b) Rs 800

132. ଜଣେ ବାଳକ ଏକ ଅଂଶକୁ $\frac{3}{4}$ ଦ୍ୱାରା ଗୁଣନ କରିବା ପାଇଁ ପଚରାଗଲାକୁ ଭୁଲରେ ସେ ଏହାକୁ $\frac{3}{4}$ ଦ୍ୱାରା ଭାଗ କଲେ ଏବଂ ସଠିକ୍ ଉତ୍ତରଠାରୁ $\frac{35}{81}$ ଅଧିକ ଉତ୍ତର ପାଇଲେ । ସଠିକ୍ ଉତ୍ତରଟି ବାହାର କରନ୍ତୁ ।

- a) $\frac{8}{9}$
- b) $\frac{4}{7}$
- c) $\frac{2}{9}$
- d) $\frac{2}{7}$

133. ପାଞ୍ଚଟି ଘଣ୍ଟି ଏକତ୍ର ବାଜିଲା ଏବଂ ଯଥାକ୍ରମେ $1\frac{1}{8}$, $1\frac{1}{2}$, $1\frac{3}{8}$, $1\frac{3}{4}$ ଏବଂ $2\frac{1}{4}$ ସେକେଣ୍ଡ ବ୍ୟବଧାନରେ ବାଜିଲା । ଏକ ଘଣ୍ଟାରେ କେତେ ଥର ସେମାନେ ଏକତ୍ର ବାଜିବେ?

- a) ୯
- b) ୧୧
- c) ୧୩
- d) ୧୫

134. ଏକ ସହରର ଜନସଂଖ୍ୟା ପ୍ରତିବର୍ଷ ୫% ହାରରେ ବୃଦ୍ଧିପାଏ । ବର୍ତ୍ତମାନର ଜନସଂଖ୍ୟା ହେଉଛି ୮୦୦୦ । କେତେ ବର୍ଷରେ ଏହାର ନିବାସୀଙ୍କ ସଂଖ୍ୟା ୯୨୬୧ ହେବ?

- a) ୨ ବର୍ଷ
- b) ୩ ବର୍ଷ
- c) ୫ ବର୍ଷ
- d) ୭ ବର୍ଷ

135. ଏକ ପରୀକ୍ଷାରେ ପ୍ରାର୍ଥୀଙ୍କ ସଂଖ୍ୟାର ୭୦% ଇଂରାଜୀରେ ପାସ୍ କଲେ ଏବଂ ୬୫% ଗଣିତରେ ପାସ୍ କଲେ ଯେତେବେଳେ ୧୫% ଉଭୟ ବିଷୟରେ ଫେଲ୍ ହେଲେ । ଯଦି ୨୭୦ ଜଣ ପ୍ରାର୍ଥୀ ଉଭୟ ବିଷୟରେ ପାସ୍ କରନ୍ତି, ତେବେ ସମୁଦାୟ ପ୍ରାର୍ଥୀଙ୍କ ସଂଖ୍ୟା ବାହାର କରନ୍ତୁ?

- a) ୪୮୦
- b) ୫୧୦
- c) ୫୪୦
- d) ୫୬୦

136. ଯେତେବେଳେ ଏକ ବ୍ୟାଙ୍କରେ ସୁଧର ହାର $2\frac{1}{2}\%$ ଠାରୁ ୨% କୁ ହ୍ରାସ ହୁଏ, ଜଣେ ବ୍ୟକ୍ତି ତା'ର ଜମାରୁ ୪୦୦ ଟଙ୍କା ବାହାର କରେ । ଯଦି ପୂର୍ବ ତୁଳନାରେ ତା' ଦ୍ୱାରା ଗ୍ରହଣ କରାଯାଇଥିବା ବାର୍ଷିକ ସୁଧ ଟ ୧୨.୫୦ ପ କମ୍ ହୁଏ, ତାର ପ୍ରାରମ୍ଭିକ ଜମା ବାହାର କରନ୍ତୁ ।

- a) ୭୫୦ ଟଙ୍କା
- b) ୮୦୦ ଟଙ୍କା

- c) Rs 840
- d) Rs 900

137. On what sum does the difference between the compound and simple interests for 3 years at 10% per annum amount to Rs 31?

- a) Rs 800
- b) Rs 900
- c) Rs 950
- d) Rs 1000

138. The number of three digit numbers which are multiples of 9 are:

- a) 100
- b) 99
- c) 98
- d) 101

139. The sum of three prime numbers is 100. If one of them exceeds another by 36, then one of the numbers is:

- a) 7
- b) 29
- c) 41
- d) 67

140. Find the smallest number of five digits which is exactly divisible by 476.

- a) 10376
- b) 10472
- c) 10468
- d) 10486

DATA INTERPRETATION

141. Study the following information and answer the question.
The below table shows the investment of Akanksha and Kirti in three different insurance policies.

- c) 140 ଟଙ୍କା
- d) 100 ଟଙ୍କା

137. କେଉଁ ରାଶି ଉପରେ ଯୌଗିକ ଏବଂ ସରଳ ସୁଧ ମଧ୍ୟରେ ବର୍ଷକୁ 10% ହାରରେ ୩ ବର୍ଷ ପାଇଁ ବ୍ୟବଧାନ ୩୧ ଟଙ୍କା ହେବ?

- a) 100 ଟଙ୍କା
- b) 900 ଟଙ୍କା
- c) 950 ଟଙ୍କା
- d) 1000 ଟଙ୍କା

138. ୯ ଗୁଣିତକ ଥିବା ତିନି ଅଙ୍କ ବିଶିଷ୍ଟ ସଂଖ୍ୟାଗୁଡ଼ିକର ସଂଖ୍ୟା ହେବ:

- a) 100
- b) 99
- c) 98
- d) 101

139. ତିନୋଟି ଅଭାଜ୍ୟ ସଂଖ୍ୟାର ସମଷ୍ଟି 100 । ଯଦି ସେମାନଙ୍କ ମଧ୍ୟରୁ ଗୋଟିଏ ଅନ୍ୟଠାରୁ 36 ଅଧିକ ହୁଏ, ତେବେ, ସଂଖ୍ୟାଗୁଡ଼ିକ ମଧ୍ୟରୁ ଗୋଟିଏ ସଂଖ୍ୟା ହେବ:

- a) 7
- b) 29
- c) 41
- d) 67

140. ପାଞ୍ଚ ଅଙ୍କ ବିଶିଷ୍ଟ କ୍ଷୁଦ୍ରତମ ସଂଖ୍ୟା ବାହାର କରନ୍ତୁ ଯାହା 476 ଦ୍ୱାରା ବିଭାଜନ ହୋଇପାରିବ ।

- a) 10376
- b) 10472
- c) 10468
- d) 10486

DATA INTERPRETATION

141. ନିମ୍ନଲିଖିତ ସୂଚନା ଅଧ୍ୟୟନ କରନ୍ତୁ ଏବଂ ପ୍ରଶ୍ନର ଉତ୍ତର ଦିଅନ୍ତୁ ।
ନିମ୍ନ ସାରଣୀରେ ଆକାଂକ୍ଷା ଏବଂ କୀର୍ତ୍ତିଙ୍କ ତିନୋଟି ଭିନ୍ନ ଭିନ୍ନ ବୀମା ପଲିସିରେ ନିବେଶ ଦର୍ଶାଯାଇଛି ।