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(JE, Jr MVI)**

Previous Year Paper
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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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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.

ARITHMETIC

1. What should come in place of question mark in the following expression: $\frac{\sqrt[3]{7}}{2.56} = \frac{100}{7}$?

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

2. 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

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

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

4. 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

5. 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

6. 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

7. 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

25 16

8. 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

240
 $2 \overline{) 8, 12, 16, 20}$
 $2 \overline{) 4, 6, 8, 10}$
 $2 \overline{) 2, 3, 4, 5}$
 $2 \overline{) 1, 1.5, 2.5}$

9. 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

$\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \dots \times \frac{99}{100} = \frac{1}{100}$

10. 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

$12.8 - 0.4 \times 3.5 + 2.4 \times 3.02$

18.02

11. 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

$x + y = 128$
 $x - y = 64$

12. How many leap years are there from 2000 to 2002 ?

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

902
 24
 1208
 004
 1212

$7 - 248$
 11
 $18 - 448$

$8 \overline{) 235} 29$
 16
 75
 $8 \overline{) 245} 3$
 24
 78TC/Eng/B-2

13. 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) 2 km/hr
- b) 12 km/hr
- c) 14 km/hr
- d) 15 km/hr

$$\begin{aligned} x - y &= 12 \\ x + y &= 16 \\ \hline 2x &= 28 \Rightarrow x = 14 \end{aligned}$$

19. 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

$$\frac{16 \times 3}{1}$$

14. 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%

$$\frac{14}{14+100} \times 100 = \frac{14}{114} \times 100 = 12.3\%$$

20. 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

$$\frac{423 \times 106}{94} = 486$$

15. 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

$$\begin{aligned} x \times y &= 60 \\ (x^2 + y^2) &= 169 \\ x + y &= ? \\ (x + y)^2 &= 169 + 2 \times 60 \\ &= 289 \Rightarrow x + y = 17 \end{aligned}$$

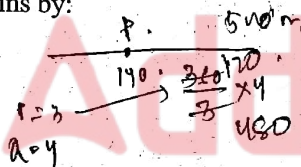
21. Rohan is as much younger than Ajay as he is older than Meena. If the sum of ages of Ajay and Meena is 108 years, then how old is Rohan ?

- a) 32 years
- b) 36 years
- c) 54 years
- d) 64 years

$$\frac{108}{2} = 54$$

16. 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



22. 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

$$\frac{30000 \times 12 + 45000 \times 10}{54} = 24000$$

17. 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. $\frac{100}{x^2}$

$$\begin{aligned} R &= xy \\ T &= x \text{ yr} \\ S &= x \\ \frac{xy \times x}{100} &= x \end{aligned}$$

18. 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

$$\frac{318 \times 100}{12 \times 2} = 1325$$

23. 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

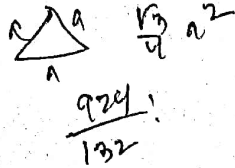
$$\frac{7+10}{2+10} = \frac{9}{4} \Rightarrow 7+10 = \frac{9}{4}(2+10) \Rightarrow 17 = \frac{9}{2}(12) \Rightarrow 17 = 54 \Rightarrow \text{Father's age} = 35$$

24. 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

25. 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%

26. 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?

$$10x + y = 3(x + y) + 4$$

$$(10y + x) = 7(x + y) + 3$$

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

27. 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) $\frac{1}{5}$

28. 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

29. 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?

$$\frac{1}{x} + \frac{1}{y} = \frac{1}{z}$$

$$\frac{1}{12} + \frac{1}{36} = \frac{1}{z}$$

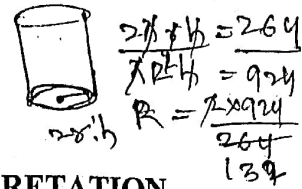
$$\frac{3 + 1}{36} = \frac{1}{z}$$

$$\frac{4}{36} = \frac{1}{z}$$

$$z = 9$$

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

30. 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

DATA INTERPRETATION

Directions (Q 31-35): Study the following table carefully to answer these questions.

(Figure in bracket indicates the maximum marks assigned for the subject)

Percentage of marks obtained by six students in different subjects.						
Subject/Student	History (75)	Geography (80)	Maths (120)	Science (150)	English (75)	Hindi (50)
A	80	85	89	79	69	76
B	74	79	92	84	72	67
C	86	65	76	82	82	87
D	69	72	62	90	78	68
E	64	64	75	86	65	62
F	76	82	95	78	60	73

31. What is the average percentage of marks obtained by all the students in Maths?

$$\frac{89 + 92 + 76 + 62 + 75 + 95}{6} \times 100 = 81.5$$

- a) 97.8
- b) 81.5
- ✓ c) 74.5
- d) 89.25

32. What is the total marks obtained by 'D' in all the subjects together?

- a) 415
- b) 411.25
- c) 427.25
- ✓ d) 439

33. What is the total marks obtained by 'C' in Math, Science and Hindi together?

- a) 252.5
- b) 255.5
- c) 255.2
- d) 257.7

34. What is the average marks obtained by the six students in Geography?

- a) 74.5
- b) 75.4
- c) 59.6
- d) 58.9

35. What is the overall percentage marks obtained by 'A' in all the subjects together? (Rounded off to two digits after decimal)

- a) 80.55
- b) 78.50
- c) 79.67
- d) 81.33

Directions (Q 36-40): The following table gives the sales of batteries manufactured by a company over the years. Based on the data given in the table, answer the following questions.

Number of Different Types of Batteries Sold by a Company Over the Years (Numbers in Thousands)

Year	Types of Batteries					Total
	4AH	7AH	32AH	35AH	55AH	
1992	75	144	114	102	108	543
1993	90	126	102	84	126	528
1994	96	114	75	105	135	525
1995	105	90	150	90	75	510
1996	90	75	135	75	90	465
1997	105	60	165	45	120	495
1998	115	85	160	100	145	605

36. What was the approximate percentage increase in the sales of 55AH batteries in 1998 as compared to that in 1992?

- a) 34%
- b) 33%
- c) 31%
- d) 28%

Handwritten calculation:
 $\frac{145 - 108}{108} \times 100 = \frac{37}{108} \times 100 \approx 34\%$

37. In the seven years, the total sales for which battery is maximum?

- a) 4AH
- b) 7AH
- c) 32AH
- d) 35AH

Handwritten calculation:
 4AH: 75+90+96+105+90+105+115 = 560
 7AH: 144+126+114+90+75+60+85 = 605
 32AH: 114+102+75+150+135+165+160 = 701
 35AH: 102+84+105+90+75+45+100 = 501
 55AH: 108+126+135+75+90+120+145 = 605

38. What is the difference in the number of 35AH batteries sold in 1993 and 1997?

- a) 24,000
- b) 28,000
- c) 35,000
- d) 39,000

Handwritten calculation:
 $102 - 84 = 18$
 $18 \times 2150 = 38700$

39. The percentage of 4AH batteries sold to the total number of batteries sold in different years was maximum in the year:

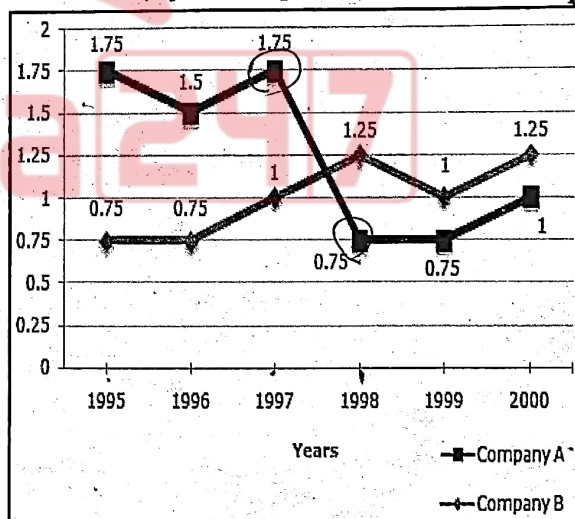
- a) 1997
- b) 1996
- c) 1995
- d) 1994

40. In case of which battery there was a continuous decrease in sales from 1992 to 1997?

- a) 4AH
- b) 7AH
- c) 32AH
- d) 35AH

Directions (Q 41-44): Answer the following questions based on the data given in the line graph.

Ratio of Exports to Imports (in terms of money in Rs. crores) of Two Companies Over the Years



41. In how many of the given years were the exports more than the imports for company A?

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

42. If the imports of company A in 1997 were increased by 40%, then what would be the ratio of exports to the increased imports?

- a) 1.25
- b) 1.30
- c) 1.35
- d) 1.45

$$\frac{1.75}{100} = \frac{175}{10000}$$

$$\frac{281.5}{100} = \frac{2815}{10000}$$

$$\frac{175}{2815} = \frac{35}{563}$$

45. The boy deposits 75 percent of his savings in a bank. What amount is left with him after depositing money from his savings?

- a) Rs 220
- b) Rs 160
- c) Rs 210
- d) Rs 170

$$210$$

43. If the exports of company A in 1998 were Rs.237 crores, then what was the amount of imports in that year?

- a) Rs.189 crores
- b) Rs.243 crores
- c) Rs.281 crores
- d) Rs.316 crores

$$\frac{79}{100} = \frac{237}{x}$$

$$x = \frac{237 \times 100}{79} = 300$$

46. If 20 percent of 'Other expenditure' of the boy is on mobile phone, 70 percent on smoking and remaining on gambling, then what is the amount he spends on smoking and gambling together?

- a) Rs 942
- b) Rs 940
- c) Rs 952
- d) Rs 960

44. In 1995, the export of company A was double that of company B. If the imports of company A during the year was Rs.180 crores, then what was the approximate amount of imports of company B during that year?

- a) Rs.190 crores
- b) Rs.210 crores
- c) Rs.225 crores
- d) Cannot be determined

47. What is the difference between the boy's total expenditure on books and food together and his expenditure on fees?

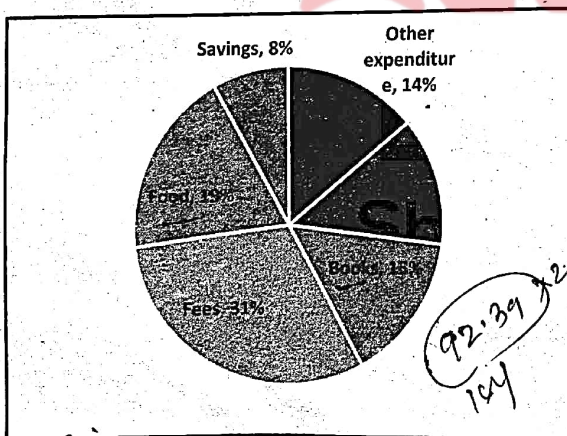
- a) Rs 255
- b) Rs 260
- c) Rs 275
- d) Rs 250

$$31 - 31 = 0$$

Directions (Q 45-49) Study the following pie-chart carefully to answer these questions.

Monthly expenditure of the boy = Rs 8500

Percentage of Monthly Expenditure



$$\frac{92.39}{100} \times 8500 = 7853.15$$

48. What is the boy's average expenses on travelling, books, fees and food together?

- a) Rs 1657.50
- b) Rs 1675.50
- c) Rs 1757.50
- d) Rs 1775.50

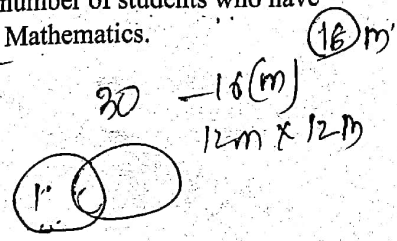
49. Expense of the boy on travelling is approximately what percent of his expense on fees?

- a) 48
- b) 50
- c) 42
- d) 55

$$\frac{13}{31} \times 100 = 41.93\%$$

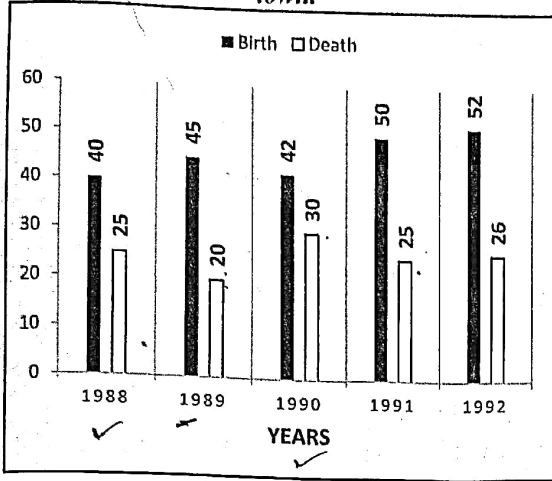
50. In a class of 30 students, 16 have opted Mathematics and 12 have opted Mathematics but not Biology. Find the number of students who have opted Biology but not Mathematics.

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



Directions (Q 51-55) Study the following graph carefully and answer the questions based on it:

Birth and Death recorded in a general hospital of a town.



51. In how many years the number of deaths recorded is lower than the average death rate over these five years?

- a) One
- b) Two
- c) Three
- d) Four

$\frac{126}{5} = 25.2$

52. In how many years births are 100% more than deaths recorded in that year?

- a) One
- b) Two
- c) Three
- d) Four

53. The births recorded in the year 1988 is how many times the deaths recorded in the year 1991?

- a) 1.2
- b) 1.5
- c) 1.33
- d) 1.6

$\frac{40}{25} = 1.6$

54. In which year the percentage difference between births and deaths recorded is minimum with respect to death recorded in that year?

- a) 1988
- b) 1990
- c) 1988 & 1990
- d) 1992

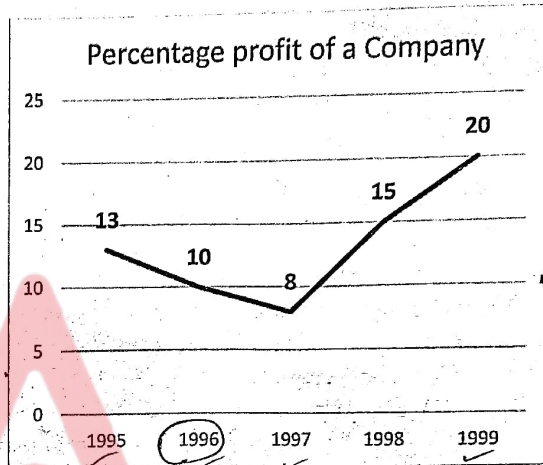
$\frac{1.20}{72} \times 100 = 1.66\%$

55. What is the percentage increase in births recorded in the year 1989 compared to its previous year?

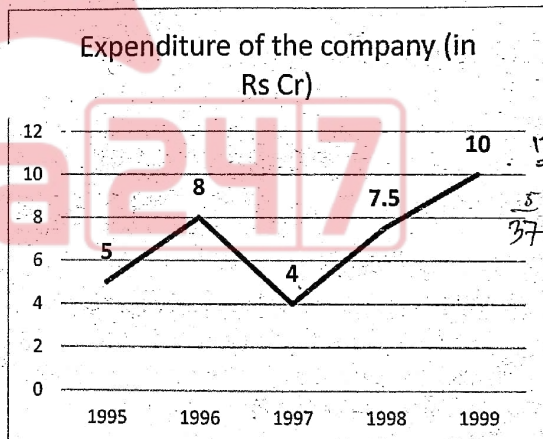
- a) 10
- b) 7.5
- c) 25
- d) 12.5

$\frac{5}{40} \times 100 = 12.5$

Directions (Q 56-60) Study the following graph carefully and answer accordingly.



$\frac{10 \times 20}{5} = 120$



$\frac{5}{37} \times 100 = 1.35$

56. What is the ratio between the percentage increase in the percentage profit and the increase in the expenditure from 1995 to 1999?

- a) 7:13
- b) 13:7
- c) 100:103
- d) 107:100

$\frac{10}{5} : \frac{100}{100} = 2 : 1$

57. What was the income (in Rs) of the company in 1996?

- a) 8.70 Cr

- b) 8.88 Cr
- ✓ c) 8.80 Cr
- d) 9.04 Cr

58. In which of the following years does the company have maximum income?

- a) 1995
- b) 1996
- c) 1997
- ✓ d) 1999

59. The income of the company in 1999 is what percentage more/less than that in 1996? (approximately)

- a) 30%
- b) 25%
- c) 35%
- d) 40%

60. In which of the following years was the ratio between percentage profit and expenditure the minimum?

- a) 1995
- ✓ b) 1996
- c) 1997
- d) 1998

LOGICAL REASONING

Directions (Q.61-64) Solve the following questions based on the information provided:

- I. A, B, C, D, E, F, G and H are eight friends. Three of them play cricket and table tennis each and two of them play football. Each one of them has different height.
- II. The tallest does not play football and the shortest does not play cricket.
- III. F is taller than A and D but shorter than H and B.
- IV. E who does not play cricket, is taller than B and is second to the tallest.
- V. G is shorter than D but taller than A.
- VI. H, who is fourth from the top in terms of height, plays table tennis with D.
- VII. G does not play either cricket or football. B does not play football.

61. Who is the tallest?

- a) B
- b) H
- c) C
- d) Data Inadequate

62. Who is the shortest?

- a) G
- b) D
- c) A
- d) Data inadequate

63. Which of the following pair of friends plays football?

- a) EA
- b) EH
- c) HF
- d) CE

64. What is F's position from the top when they are arranged in descending order of their height?

- a) Fifth
- b) Fourth
- c) Sixth
- d) Second

Directions (Q.65-70) A, B, C, D and E are five different integers. When written in the ascending order of values, the difference between any two adjacent integers is 4. D is the greatest and A the least. B is greater than E but less than C. The sum of all the integers is equal to the value of E.

65. The value of A is:

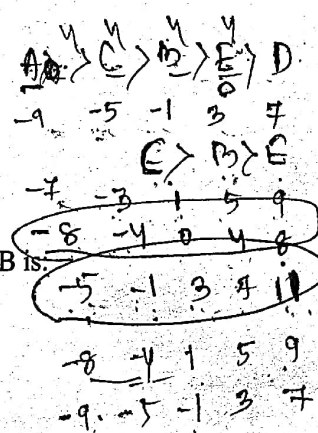
- a) -7
- ✓ b) -9
- ✓ c) -5
- ✓ d) -8

66. The sum of A and B is:

- ✓ a) -10
- b) -15
- c) 10
- d) 12

67. The greatest number has the value:

- ✓ a) 9
- b) -5
- c) 3



d) 7

68. The sum of all the integers is:

- a) 25
- b) -6
- c) -15
- d) -5

69. The product of all the integers is:

- a) -945
- b) 945
- c) 315
- d) 420

70. What is the difference in value between the highest and the lowest integers?

- a) 8
- b) 6
- c) 16
- d) 9

Directions (Q.71-74) Refer to the data below and answer the questions that follow.

In the CBSE Board Exams last year, 53% passed in Biology, 61% passed in English, 60% in Social Studies, 24% in Biology and English, 35% in English and Social Studies, 27% in Biology and Social Studies and 5% in none.

71. Percentage of students who have passed in all the subjects is:

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

72. If the number of students in the class is 200, how many students passed in only one subject?

- a) 48
- b) 46
- c) More than 50
- d) Less than 40

73. If the number of students in the class becomes 300, what will be the percentage change in the number of students passed in only two subjects, if the original number of students was 200?

- a) More than 50%
- b) Less than 50%

Handwritten notes:
 $7 + \frac{24}{24} = 1$
 $1 + \frac{30}{24} = 1.25$

- c) 50%
- d) 30%

74. What is the ratio of percentage of students passed in Biology and Social Studies but not English in relation to the percentage of students passed in Social Studies and English but not Biology?

- a) 5:7
- b) 7:5
- c) 4:5
- d) 2:3

75. Which of the following cannot be a number of the following series.

-----, 64, 125, 216, 343, 512, -----?

- a) 8
- b) 729
- c) 27
- d) 999

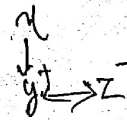
76. Which letter should be the tenth letter to the left of the ninth letter from the right, if the first half of the alphabets of English are reversed?

- a) D
- b) F
- c) E
- d) I

Handwritten notes:
 +10 L
 -9 R

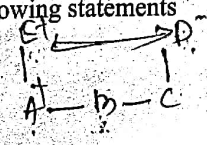
77. 'X+Y' means 'X is the father of Y', 'X-Y' means 'X is the wife of Y', 'X × Y' means 'X is the brother of Y', 'X ÷ Y' means 'X is the mother of Y' and 'X=Y' means 'X is the Sister of Y'. On the basis of this information, what does X+Y-Z means?

- a) X is the father-in-law of Z
- b) Z is the father of X
- c) Z is the niece of X
- d) X is the brother of Z



78. A is the brother of B and C. D is C's mother. E is A's father. Which of the following statements cannot be definitely true?

- a) B is E's son
- b) E is B's father
- c) D is A's mother
- d) A is D's son



79. December 9, 2001 is Sunday. What was the day on December 9, 1971?

- n) Thursday
- b) Wednesday
- c) Saturday
- d) Sunday

80. Which four bits can be joined together to form two words that have opposite meanings?

ERT, UCE, DES, END, EXP, EAR, AND, SIP, RED, GOS

1 2 3 4 5 6 7 8 9
10

- a) 2, 5, 7, 9
- b) 1, 3, 8, 10
- c) 1, 5, 8, 10
- d) 2, 4, 7, 8

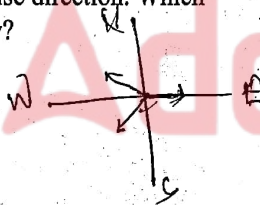
81. In the following series, what numbers should replace the question marks?

-1, 0, 1, 0, 2, 4, 1, 6, 9, 2, 12, 16, ???

- a) 11, 18, 27
- b) -1, 0, 3
- c) 3, 20, 25
- d) Cannot be ascertained.

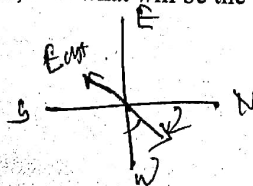
82. I am facing north. I turn 90° in the clockwise direction and then 135° in the same direction and then 270° in anti-clockwise direction. Which direction am I facing now?

- a) Southwest
- b) South
- c) West
- d) Northwest



83. If southeast becomes east and Northwest becomes west and all the other directions are changed in the same direction, then what will be the direction for north?

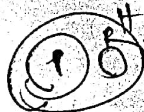
- a) Northwest
- b) Southeast
- c) Southwest
- d) Northeast



Directions (Q. 84 - 85) In the following questions there is a statement followed by two conclusions. You have to choose any one of the given options.

84. Statement: All politicians are honest. Radha Devi is an honest lady.

Conclusions: I. She is a politician.



II. She is not interested in politics.

- a) If only conclusion I follows.
- b) If only conclusion II follows.
- c) If conclusions I & II both follows.
- d) If neither I nor II follows.

85. Statement: If the temperature remains constant the wind speed will be below 100 kmph. Wind speeds were above 100 kmph.

Conclusions: I. Temperature was not constant.

II. Temperature was fluctuating.

- a) If only conclusion I follows.
- b) If only conclusion II follows.
- c) If conclusions I & II both follows.
- d) If neither I nor II follows.

Directions (Q. 86-87) A boy is asked to put in a basket one mango when ordered 'One', one orange when ordered 'Two', one apple when ordered 'Three' and is asked to take out from the basket one mango and an orange when ordered 'Four'. A sequence of orders is given as : 1 2 3 3 2 1 4 2 3 1 4 2 2 3 3 1 4 1 1 3 2 3 4

86. How many total oranges were in the basket at the end of the above sequence?

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

87. How many total fruits will be in the basket at the end of the above order sequence?

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

Directions (Q. 88 - 90) If $A \times B$ implies $A^2 + B^2$, $A \vee B$ implies $A^2 - B^2$, $A \wedge B$ implies $(A+B)^2$, $A \oplus B$ implies $(A-B)^2$

88. Calculate the value of $(2Z2) M (4Y4)$.

- a) 16
- b) 256
- c) 25
- d) 40

$$\begin{aligned} & ((2+2)^2 - (4^2 - 4^2))^2 \\ & = 16 \end{aligned}$$

89. If $(AMB) = (AZB)$, then which of the following is true?

- a) $A-B = 0$
- b) $A^2 = B^2$
- c) $A \cdot B = 0$
- d) $A = 0$

$$(A-B)^2 = (A+B)^2$$

90. Calculate the value of $(373)M(413)$.

- a) 1600
- b) 900
- c) 400
- d) 2500

$$(373-413)^2$$

**COMPUTER AND INTERNET
AWARENESS**

91. In MS-WORD, what is the effect of Ctrl + = key?

- a) Superscript
- b) Subscript
- c) All Caps
- d) Shadow

92. Which of the following options is used to create a cross-reference in MS Word?

- a) Ctrl + K
- b) Ctrl + Q
- c) Ctrl + Shift + F7
- d) Ctrl + Alt + R

93. In MS Word If you want to convert a symbol or several lines of text into an AutoCorrect entry, you should:

- a) Insert the symbol or type the text in a Word document first. Then, select the text or symbol and go to the AutoCorrect dialog box.
- b) Click the Tools menu and choose AutoCorrect Options. Then, click the Insert menu and choose Symbol (or click the Format menu and choose Paragraph) to add the symbol or paragraph to AutoCorrect.
- c) AutoCorrect can only accommodate one line of text. It is not possible to convert a symbol or multiple lines of text into an AutoCorrect entry.
- d) Insert the symbol or type the text in a Word document first. Then, select the text or symbol and click the Edit menu followed by Paste Special. Select New AutoCorrect Entry and then click OK.

94. When all the numbers between 0 and 100 in a range should be displayed in Red Color in MS-Excel, apply:

- a) Use = if() function to format the required numbers red
- b) Apply Conditional Formatting command on Format menu
- c) Select the cells that contain number between 0 and 100 then click Red color on Text Color tool
- d) All of the above

95. In MS- Excel ,you can auto fit the width of column by:

- a) Double clicking on the column name on column header
- b) Double clicking on the cell pointer in worksheet
- c) Double clicking on column right border of column header
- d) Double clicking on the column left border of column header

96. Which of the following tools enables you to add text to a slide without using the standard placeholders in Microsoft PowerPoint?

- a) Text toolbox
- b) Line tool
- c) Drawing tool
- d) Auto shapes tool

97. What PowerPoint feature will you use to apply motion effects to different objects of a slide?

- a) Slide Transition
- b) Slide Design
- c) Animation Objects
- d) Animation Scheme

98. You have customized a design template in one presentation, and you want to use it in another presentation. What is the best way to do this in Microsoft PowerPoint?

- a) Use the browse feature in the slide design task pane to find the file that has your design template and apply it to the current file
- b) Copy and paste the slide with the design template you want to include in the new presentation; inserted slide will inherit the design
- c) Save the presentation that has the design template with a new name and then use a new file to your presentation
- d) All of the above

99. What does the show check box in MS-Access query design window indicate?

- It indicates whether the field is to be used or not
- It indicates whether the field is to be displayed in query result or not
- It indicates whether the field names to be displayed in query result or not
- None of the above

100. What happens when you release mouse pointer after you drop the primary key of a table into foreign key of another table?

- A relationship is created
- Edit relationship dialog box appears
- Error occurs
- Nothing happens

101. In MS-Access, Query design window has two parts. The upper part shows:

- Name of fields, field type and size
- Tables with fields and relationships between tables
- Criteria
- Sorting check boxes

102. What is the use of Referential Integrity in MS Access?

- It allows to enter a value in the foreign key field of a child table if that value exists in the primary key of the parent table
- It does not allow to enter a value in the foreign key field of a child table if that value exists in the primary key of the parent table
- It allows to enter a value in the Primary key field of a child table if that value exists in the Foreign key of the parent table
- None of the above

103. Which protocol assigns IP address to the client connected to the internet?

- DHCP
- IP
- RPC
- RSVP

104. _____ refers to the process of a web page appearing in the browser's window.

- Downloading
- Uploading
- Loading
- Browsing

105. Which of the following cables can transmit data at high speeds?

- Flat cable
- Co-axial cable
- Optic fibre cable
- Twisted pair cable

106. At which port number, Simple Network Management Protocol (SNMP) operates?

- 160
- 163
- 164
- 161

107. What is the function of Ctrl + G in MS Word?

- Open Paragraph Dialog box activating Goto Tab
- Open Goto Dialog box
- Open, Find and Replace Dialog box with activating Goto Tab
- Open Page Setup Dialog box activating Goto Tab

108. The keyboard shortcut used to select text in the direction of the arrow key is:

- Ctrl + Arrow
- Ctrl + Shift
- Ctrl + S
- Shift + Arrow

109. What shortcut key is used to split a table in MS Word?

- Ctrl + Shift + Enter
- Alt + Space + Enter
- Ctrl + Alt + Enter
- Alt + Shift + Enter

110. What happens when you press Ctrl + X after selecting some cells in MS-Excel?

- The cell content of selected cells disappears from cell and stored in clipboard
- The cells selected are marked for cutting
- The selected cells are deleted and the cells are shifted left
- The selected cells are deleted and cells are shifted up

111. How can you find specific information in a list?

- Select Tools > Finder from the menu
- Click the Find button on the standard toolbar
- Select Insert > Find from the menu
- Select Data > Form from the menu to open the Data Form dialog box and click the Criteria button

112. You can use drag-and-drop to embed excel worksheet data in a word document:

- a) By dragging a range of excel data to the word button on the taskbar while pressing the Ctrl key
- b) By dragging a range of excel data to the word button on the taskbar while pressing Shift key
- c) By dragging a range of excel data to the word button on the taskbar while pressing Alt key
- d) None of the above

113. The difference between Slide Design and Auto Content Wizard is:

- a) Both are same
- b) AutoContent Wizard is just the wizard version of Slide Design
- c) Slide Design does not provide sample content but Auto Content Wizard provides sample content too
- d) Slide Design asks your choice in steps but Auto Content Wizard does not let you make choices

114. What is the shortcut key to start presentation from current slide?

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

115. Which option can be used to create a new slide show with the current slides but presented in a different order?

- a) Rehearsal
- b) Custom Slide show
- c) Slide Show Setup
- d) Slide Show View

116. The "Lookup Wizard" in MS access used for:

- a) to select value from another table
- b) to select values from Excel Sheet
- c) to select from previous values
- d) not a valid Data Type

117. In MS-Access, a form with data records at one half and entry format at the other half may be created using _____ menu.

- a) Create>Form
- b) Create>Split Form
- c) Create>Multiple Items
- d) Create>Blank Form

118. What is the full form of MIME?

- a) Multipurpose Internet Mail Extensions
- b) Multipurpose Intra Mail Extensions

- c) Multiple Internet Mail Extensions
- d) Multiple purpose Internet Mail Email

119. A device that is used to convert digital signals (or data) into analog signals and vice versa is called:

- a) Keyboard
- b) Router
- c) Modem
- d) Light pen

120. E-mail addresses separate the username from ISP using the _____ symbol.

- a) &
- b) @
- c) %
- d) :

CURRENT EVENTS

121. Who won Men's singles Championship at Australian Open in 2024 ?

- a) Jannik Sinner
- b) Novac Jokovic
- c) Carlos Alcarezi
- d) Rafel Nadal

122. Which country will be hosting Men's Twenty Twenty cricket world cup in June-2024?

- a) India
- b) Australia
- c) USA
- d) South Africa

123. Which country will be hosting Women's Twenty Twenty cricket world cup in 2024?

- a) India
- b) Bangladesh
- c) New Zealand
- d) Srilanka

124. Who won Under-19 cricket world cup (men's) 2024, held in South Africa recently?

- a) Australia
- b) India
- c) Pakistan
- d) South Africa

125. Which country emerged champion at Badminton Asia Team Championship (women), recently held in Malaysia ?

- a) China
- b) India
- c) Thailand
- d) Malaysia

126. Kumar Sahani died recently. In which field did he distinguish himself?

- a) Literature
- b) Sports
- c) Film
- d) Politics

127. Imtiaz Qureshi died recently. In which field did he distinguish himself?

- a) Cooking
- b) Wrestling
- c) Singing
- d) Film Making

128. Fali S Nariman died recently. In which field did he distinguish himself?

- a) Law
- b) Music
- c) Film
- d) Literature

129. Sugnana Kumari Deo died recently after a distinguished public service. How many times was she elected Member of Legislative Assembly of Odisha?

- a) 7
- b) 8
- c) 9
- d) 10

130. Pankaj Udhas died in February, 2024. In which field did he earn his fame?

- a) Music
- b) Politics
- c) Athletics
- d) Literature

131. Who has been appointed Chairperson of Lokpal?

- a) Justice Ajay M Khan Wilkar
- b) Justice L.N. Swamy
- c) Justice Sanjay Yadav
- d) Justice Rituraj Awasthi

132. Who is the Chief Election Commissioner of India?

- a) Sushil Chandra
- b) Rajiv Kumar
- c) S Y Quraishi
- d) Arun Goel

133. Who was recently sworn in as CM of Jharkhand?

- a) Champai Soren
- b) Kalpana Soren
- c) Hemant Soren
- d) Arjun Munda

134. Who is the Chief Electoral Officer of Odisha?

- a) Sushil Lohani
- b) Nikunj B. Dhal
- c) A.P Padhi
- d) Rajiv Kumar

135. Who is the Chief Justice of Odisha High Court?

- a) Justice Shri S.Murlidhar
- b) Justice Shri Chakradhari Sharan Singh
- c) Justice Shri Subhasis Talapatra
- d) Justice Shri K.P Jhaveri

136. Which among the following countries is not included in Quad?

- a) India
- b) U.S
- c) Japan
- d) China

137. Which among the following countries is not included in BIMSTEC?

- a) Bangladesh
- b) Nepal
- c) Pakistan
- d) Sri Lanka

138. Which country was recently admitted to NATO after Parliament of Hungary ratified its NATO accession?

- a) Sweden
- b) Finland
- c) Poland
- d) Ukraine

139. Who is the new Prime Minister of Pakistan?

- a) Nawaz Sharif
- b) Shehbaz Sharif
- c) Maryam Nawaz
- d) Imran Khan

140. Who is the Chief Minister of Chhattisgarh?

- a) Vijay Sharma
- b) Arun Sao
- c) Vishnu Deo Sai
- d) Bhupan Baghal

141. What is the name of the new Law replacing Criminal Procedure Code?

- a) Bharatiya Nagarik Suraksha Sanhita
- b) Bharatiya Nyaya Sanhita ✓
- c) Bharatiya Sakshya Adhinyam
- d) Bharatiya Danda Sanhita

142. What is the name of the new law replacing Indian Evidence Act ?

- a) Bharatiya Nagarik Suraksha Sanhita
- b) Bharatiya Nyaya Sanhita
- c) Bharatiya Sakshya Adhinyam
- d) Bharatiya Danda Sanhita

143. How many Lok Sabha Seats are there in Odisha?

- a) 22
- b) 19
- c) 20
- d) 21 ✓

144. How many Rajya Sabha Seats are there from Odisha?

- a) 9
- b) 10 ✓
- c) 11
- d) 12

145. Who is the Chief Minister of Himachal Pradesh?

- a) Sukhvinder Singh Sukhu ✓
- b) Vikramaditya Singh
- c) Pratibha Singh
- d) Jai Ram Thakur

146. Which country is the present Chairman of G-20 ?

- a) India
- b) Indonesia
- c) Brazil
- d) France

147. Which country is the present Chairman of G-7?

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

148. 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

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

- a) 80 ✓
- b) 85
- c) 75
- d) 82

150. 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 ✓