SEAL

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**Test Booklet Series** **T.B.C. : ASG(AG)-2/25**

**A**

# TEST BOOKLET

## ASSISTANT SECTION OFFICER

**Paper – II** **Sl. No.** 248049

## (A) TEST OF REASONING & MENTAL ABILITY

## (B) MATHEMATICS

***Time Allowed : 1¼ hrs.*** ***Maximum Marks : 100***

## INSTRUCTIONS TO CANDIDATES

1. IMMEDIATELY AFTER COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
3. You have to enter your **Roll No.** on the Test Booklet in the Box provided along side. **DO NOT** write *anything else* on the Test Booklet.
4. **YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET/ QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.**
5. This Test Booklet contains **100 items** (questions) i.e. Sl.No. **01 to 50** items (questions) for **Test of Reasoning & Mental Ability** and Sl.No. **51 to 100** items (questions) for **Mathematics**. Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose ***ONLY ONE*** response (answer) for each item (question).
6. You have to mark (darken) all your responses ***ONLY*** on the **Separate Answer Sheet** provided, by **using BALL POINT PEN (BLUE OR BLACK)**. See instructions in the Answer Sheet.
7. All items (questions) carry **1 (ONE) mark**. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. **For each wrong answer 0.25 marks shall be deducted from the marks awarded for correct answers.**
8. Before you proceed to mark (darken) in the Answer Sheet the responses to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your **Admission Certificate**.
9. After you have completed filling in all your responses on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the *Answer Sheet issued* to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the **Test Booklet,** after completion of the examination, for your reference.
10. Sheets for rough work are appended in the Test Booklet at the end.

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1. Choose the most appropriate option to complete the following series.

V, R, N, __, F, B

(A) K

(B) H

(C) J

(D) P

2. In a certain code language, STRAIGHT is written as TSARGITH. How will THURSDAY be written as in that language?

(A) AYSDURTH

(B) HTRUDSYA

(C) UHTDRSYA

(D) HTRUDSAY

3. A class of boys is standing in only one row. A boy is at thirty third position from both the ends in this sequence. How many boys are there in the class?

(A) 64

(B) 65

(C) 69

(D) 66

4. Suraj drove his bicycle towards the north. Then he turned to the right and covered a distance of 2 km. Then, he turned to the right and covered a distance of 4 km. He found himself 2 km east of his starting point. How far did he go by bicycle in the north direction?

(A) 2 km
(B) 4 km
(C) 6 km
(D) 8 km

5. At present, A is younger than B by 8 years. If 4 years ago, their ages were in the ratio 1 : 2, then what is the present age of B (in years)?

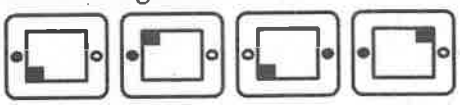
(A) 12
(B) 20
(C) 11
(D) 18

6. Find the missing figure in the series from the given answer figures.

Question figures :




Answer figures :



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

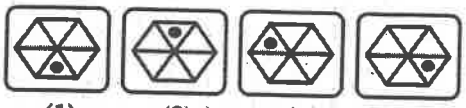
(A) 1
(B) 2
(C) 3
(D) 4

7. Find the missing figure in the series from the Answer figures.

Question figures :




Answer figures :



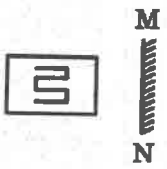

(A) 4

(B) 2

(C) 3

(D) 1

8. Select the mirror image of the following figure :



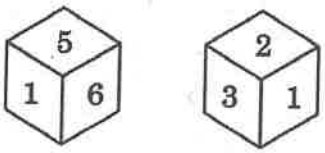

(A) 

(B) 

(C) 

(D) 

9. Two different positions of the same dice are shown. Which number will be at the top if 6 is at the bottom?



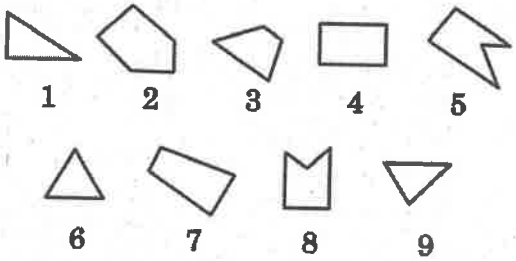

(A) 4

(B) 3

(C) 5

(D) 2

10. Group the given figures into three classes using each figure only once.



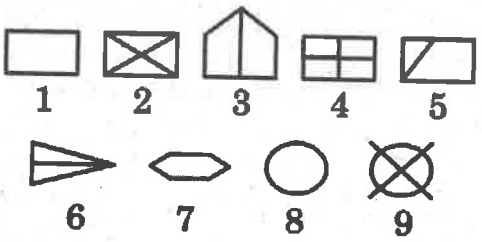

(A) 7, 8, 9; 2, 4, 3; 1, 5, 6

(B) 1, 3, 2; 4, 5, 7; 6, 8, 9

(C) 1, 6, 8; 3, 4, 7; 2, 5, 9

(D) 1, 6, 9; 3, 4, 7; 2, 5, 8

11. Group the given figures into three classes using each figure only once



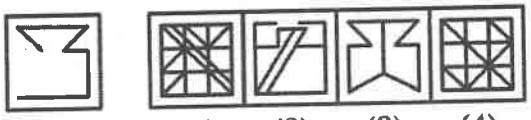

(A) 1, 2, 4; 3, 5, 6; 7, 8, 9

(B) 1, 7, 8; 3, 5, 6; 2, 4, 9

(C) 1, 3, 4; 2, 8, 9; 5, 6, 7

(D) 1, 7, 8; 2, 3, 6; 4, 5, 9

**Directions (Q.Nos. 12 to 13) :** In each of the following questions, you are given a figure (X) followed by four alternative figures (1), (2), (3) and (4) such that figure (X) is embedded in one of them. Find out the alternative figure which contains figure (X) as its part

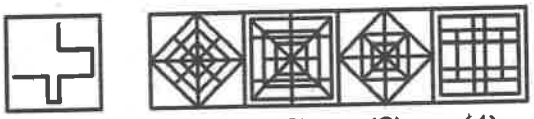
12. 
(X) (1) (2) (3) (4)

(A) 1

(B) 2

(C) 3

(D) 4

13. 
(X) (1) (2) (3) (4)

(A) 1

(B) 2

(C) 3

(D) 4

14. The calendar for the year 2007 will be the same for the year

(A) 2014

(B) 2016

(C) 2017

(D) 2018

15. Choose the appropriate number to complete the series :

1, 4, 27, 16, ? , 36, 343

(A) 125

(B) 25

(C) 87

(D) 120

16. Arrange the following words in the order in which they appear in an English Dictionary :

(I) Radical

(II) Radiate

(III) Racket

(IV) Radius

(V) Radar

(A) (III), (V), (II), (I), (IV)

(B) (III), (V), (II), (IV), (I)

(C) (III), (V), (IV), (I), (II)

(D) (III), (IV), (II), (I), (V)

17. Patro 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) 5 km West

(B) 7 km West

(C) 7 km East

(D) 5 km North-east

18. In a certain code language, 'cool drinks available here' is written as 'bhu man juk lop', 'available lost objects here' is written as 'gan bhu nut juk', 'be cool search objects' is written as 'vax der man nut', and 'available drinks desert search' is written as 'but juk der lop'. How will 'lost drinks' be written in that language?

(A) gan lop

(B) nut gan

(C) lop bhu

(D) juk gan

19. There are seven persons A, B, C, D, E, F, and G. Each of them has different heights. C is shorter than only G. The number of persons taller than B is equal to the number of persons shorter than D. Neither A nor E is shortest. Who among the following is shortest?

(A) G

(B) D

(C) B

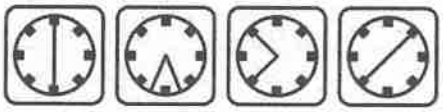
(D) F

20. Find the missing figures in the series from the Answer figures given below :

Question figures :




Answer figures :



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

(A) 1

(B) 4

(C) 3

(D) 2

**21.** A cube of side 18 cm is painted yellow on all the faces and then cut into smaller cubes of sides 3 cm each. Find the number of smaller cubes that have only two faces painted.

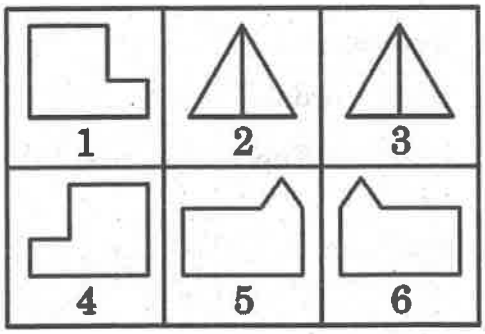
(A) 48

(B) 20

(C) 64

(D) 36

**22.** Group the given figures into three classes using each figure only once.



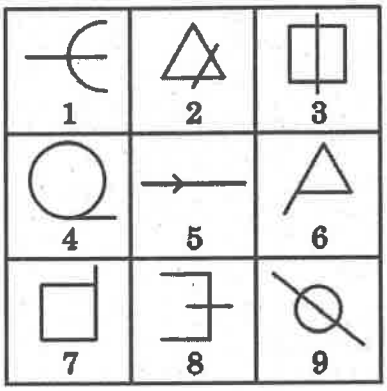

(A) 1, 4; 2, 3; 5, 6

(B) 1, 5; 2, 6; 4, 3

(C) 1, 6; 2, 3; 4, 5

(D) 1, 2; 3, 6; 4, 5

**23.** Group the given figures into three classes using each figure only once.




(A) 1, 3, 9; 2, 5, 8; 4, 6, 7

(B) 2, 5, 9; 1, 3, 8; 2, 6, 7

(C) 1, 5, 8; 4, 6, 7; 2, 3, 9

(D) 1, 8, 9; 4, 6, 7; 2, 3, 5

**24.** In the following question, select the related word pair from the given alternatives :

Tuberculosis : Lungs : Typhoid : ?

(A) Intestine

(B) Liver

(C) Lungs

(D) Brain

25. Select the option in which the numbers are related in the same way as the numbers of the following set, (18, 6, 216):

(A) (20, 4, 160)

(B) (21, 7, 343)

(C) (27, 3, 243)

(D) (30, 5, 180)

26. Arrange the following words in the order in which they appear in an English Dictionary:

(I) Unimportant

(II) Understand

(III) Unnecessary

(IV) Uncertain

(V) Unethical

(A) (IV), (V), (II), (I), (III)

(B) (IV), (II), (V), (I), (III)

(C) (IV), (II), (V), (III), (I)

(D) (IV), (III), (II), (I), (V)

**Directions (Q.Nos. 27 & 28) : These questions are based on five words given below :**

LAP BUT CAR SON HID

27. If the second alphabet in each of the word is changed to the next alphabet in the English alphabetic order, how many words having no vowels will be formed?

(A) Three

(B) Five

(C) Four

(D) Two

28. If the given words are arranged in the order as they would appear in the English dictionary from left to right, which of the following will be the fourth from the right?

(A) LAP

(B) SON

(C) BUT

(D) CAR

29. A man is facing towards west and turns through 45° clockwise, again 180° clockwise and then turns through 270° anti clockwise. Which direction is he facing now?

(A) West

(B) North-west

(C) South

(D) South-west

30. In a certain code language, ' first of all' is written as 'kan dan san', who is first' is written as 'zan kan ven', and 'this is pale' is written as 'ven gen len'. How will 'who' be written in that language?

(A) kan

(B) gen

(C) zan

(D) ven

31. In a row, Aman is at the 20th position from the left and Gita is at the 14th position from the right. If they interchange their positions, Aman becomes 30th from the left. Now, what is the position of Gita from the right?

(A) 24th

(B) 22nd

(C) 25th

(D) 20th

32. In a row of 26 persons facing North, Person A is 13th from the right side. After shifting him third to the left from the existing position, what is his position from the left side now?

(A) 10

(B) 14

(C) 11

(D) 12

33. The average of the ages of three persons A, B and C is 45 years and the average age of A, C and D is 51 years. If the age of D is 56 years, what is the age of B?

(A) 35 years

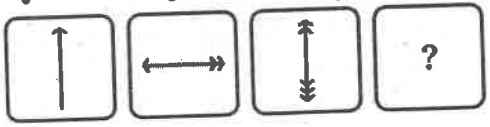
(B) 38 years

(C) 36 years

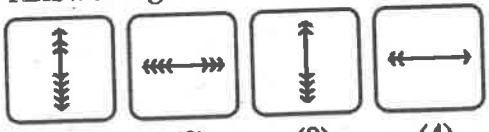
(D) 36.5 years

34. Find the missing figure in the series from the Answer figures given below :

Question figures :




Answer figures :



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

(A) 1

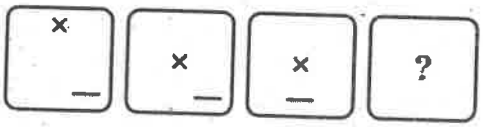
(B) 2

(C) 3

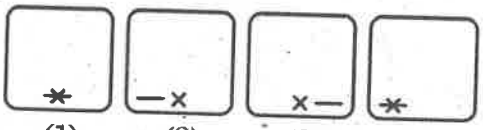
(D) 4

35. Find the missing figure in the series from the Answer figures given below :

Question figures :



Answer figures :



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

(A) 1

(B) 2

(C) 3

(D) 4

36. Choose the alternative which resembles with mirror image of given combination :

EFFECTIVE

(1) ƎVITƆƎFFƎ

(2) EVITCEFFE

(3) ƎFFƎƆTIVƎ

(4) ƎVITƆƎFFƎ

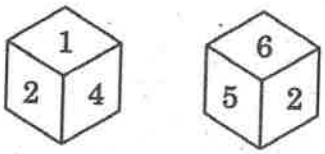
(A) 2

(B) 1

(C) 3

(D) 4

37. Two rotated positions of a dice are given below. Which number will be at the top if '3' is at the bottom?




(A) 4

(B) 1

(C) 2

(D) 6

38. The minimum number of colours required to paint all the sides of a cube so that no two adjacent faces may have the same colours is:

(A) 3

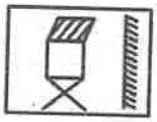
(B) 6

(C) 4

(D) 2

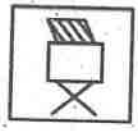
39. Select the mirror image of the following figure :

Question figure :



(A) 

(B) 

(C) 

(D) 

40. Find the odd one out

(A) Parrot

(B) Bat

(C) Crow

(D) Sparrow

41. Ram moved a distance of 75 metres towards the north. He then turned to the left and walking for about 25 metres, turned left again and walked 80 metres. Finally, she turned to the right at an angle of 45°. In which direction was she moving finally?

(A) South-west

(B) North-east

(C) North-west

(D) South-east

42. In a certain code language, 'MOST' is written as '134' and 'FUR' is written as '90'. How will 'SUCCESS' be written in that language?

(A) 89

(B) 175

(C) 215

(D) 178

43. If N = 28 and ORE = 76, then how will you code PALE?

(A) 68

(B) 72

(C) 76

(D) 19

44. In a row of boys, Bhavuk is at 7th position from left end. Bhavan is at 16th position from right end. If there are 6 boys between them, how many boys are there in the row?

(A) 26

(B) 27

(C) 29

(D) 20

45. A cube of side 125 cm is painted red on all the faces and then cut into smaller cubes of sides 25 cm each. Find the number of smaller cubes having atleast two faces painted.

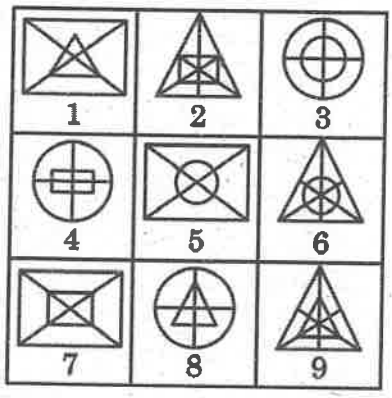
(A) 48

(B) 36

(C) 44

(D) 52

46. Group the given figures into three classes using each figure only once.




(A) 2, 4, 7; 1, 8, 9; 3, 5, 6

(B) 2, 6, 9; 1, 5, 7; 3, 4, 8

(C) 2, 6, 7; 1, 5, 8; 3, 4, 9

(D) 2, 8, 7; 1, 5, 9; 3, 4, 6

47. The ratio between the present ages of A and B is 3 : 5. If the ratio of their ages five years after becomes 13 : 20, then the present age of B is:

(A) 40 years

(B) 35 years

(C) 30 years

(D) 32 years

**Directions (Q.Nos. 48 to 50) : In each of the following questions, one term in the number series is wrong. Find out the wrong term.**

48. 125, 126, 124, 127, 123, 129

(A) 126

(B) 124

(C) 123

(D) 129

49. 1, 3, 12, 25, 48

(A) 3

(B) 12

(C) 25

(D) 48

50. 2, 5, 10, 50, 500, 5000

(A) 5

(B) 10

(C) 50

(D) 5000

51. A boy read $\frac{3}{8}$th of a book on one day and $\frac{4}{5}$th of the remainder on another day. If there were 30 pages unread, how many pages did the book contain?

(A) 240

(B) 300

(C) 600

(D) 412

52. One year ago, Promila was four times as old as her daughter Sakshi. Six years hence, Promila's age will exceed her daughter's age by 9 years. The ratio of the present ages of Promila and her daughter is

(A) 9 : 2

(B) 11 : 3

(C) 12 : 5

(D) 13 : 4

53. A contract is to be completed in 46 days and 117 men were set to work, each working 8 hours a day. After 33 days, $\frac{4}{7}$ of the work is completed. How many additional men may be employed so that the work may be completed in time, each man now working 9 hours a day?

(A) 85

(B) 90

(C) 81

(D) 80

54. Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph; he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?

(A) 8 kmph

(B) 11 kmph

(C) 12 kmph

(D) 14 kmph

55. A clock is set right at 5 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on 4$^{th}$ day?

(A) 9 p.m.

(B) 15 p.m.

(C) 11 p.m.

(D) 13 p.m.

56. What least number must be subtracted from 1672 to obtain a number which is completely divisible by 17?

(A) 6

(B) 7

(C) 8

(D) 4

57. If 15% of 40 is greater than 25% of a number by 2, then the number is

(A) 12

(B) 16

(C) 24

(D) 32

58. The sum of two numbers is 2490. If 6.5% of one number is equal to 8.5% of the other, then the numbers are

(A) 989, 1501

(B) 1011, 1479

(C) 1401, 1089

(D) 1411, 1079

59. A train 100 metres long takes 6 seconds to cross a man walking at 5 kmph in a direction opposite to that of the train. Find the speed of the train.

(A) 55 kmph

(B) 60 kmph

(C) 50 kmph

(D) 65 kmph

60. In a km race, A beats B by 28 metres in 7 seconds. Find A's time over the course.

(A) 6 min 3 sec.

(B) 4 min 3 sec.

(C) 8 min 2 sec.

(D) 5 min 6 sec.

61. Four different electronic devices make a beep after every 30 minutes, 1 hour, $1\frac{1}{2}$ hour and 1 hour 45 minutes respectively. All the devices beeped together at 12 noon. They will again beep together at:

(A) 12 mid night

(B) 3 a.m.

(C) 6 a.m.

(D) 9 a.m.

62. 50 is divided into two parts such that the sum of their reciprocals is $\frac{1}{12}$. Then the two parts, are:

(A) 30, 35

(B) 30, 20

(C) 30, 25

(D) 30, 28

63. Four milkmen rented a pasture. A grazed 24 cows for 3 months; B 10 cows for 5 months; C 35 cows for 4 months and D 21 cows for 3 months. If A's share of rent is Rs. 720, find the total rent of the field.

(A) 3245

(B) 3260

(C) 3360

(D) 3250

64. A car covers a distance of 715 km at a constant speed. If the speed of the car would have been 10 km/hr more, then it would have taken 2 hours less to cover the same distance. What is the original speed of the car?

(A) 45 km/hr

(B) 50 km/hr

(C) 55 km/hr

(D) 65 km/hr

65. In a 100 m race, A runs at 8 km per hour. If A gives B a start of 4 m and still beats him by 15 seconds, what is the speed of B?

(A) 5.76 km/hr

(B) 6.25 km/hr

(C) 4.25 km/hr

(D) 7.28 km/hr

66. If each side of a square is increased by 25%, find the percentage change in its area.

(A) 55.28%

(B) 56.25%

(C) 57.25%

(D) 58.36%

67. If $x = y^a$, $y = z^b$ and $z = x^c$, then the value of $abc$, is

(A) 2

(B) 1

(C) 3

(D) 4

68. The average weight of 16 boys in a class is 50.25 kgs and that of the remaining 8 boys is 45.15 kgs. Then the average weight of all the boys in the class:

(A) 47.55 kgs

(B) 48 kgs

(C) 48.55 kgs

(D) 49.25 kgs

69. A watch which gains uniformly is 2 minutes low at noon on Monday and is 4 min. 48 sec fast at 2 p.m. on the following Monday. When was it correct?

(A) 2 p.m. on Tuesday

(B) 2 p.m. on Wednesday

(C) 3 p.m. on Thursday

(D) 1 p.m. on Friday

70. A number was divided successively in order by 4, 5 and 6. The remainders were respectively 2, 3 and 4. The number is

(A) 214

(B) 476

(C) 954

(D) 1908

71. What is the sum of two consecutive even numbers, the difference of whose squares is 84?

(A) 34

(B) 38

(C) 42

(D) 46

72. A man bought toffees at 3 for a rupee. How many for a rupee must he sell to gain 50%?

(A) 4

(B) 2

(C) 5

(D) 3

73. If $x$ men, working $x$ hours per day, can do $x$ units of work in $x$ days, then $y$ men, working $y$ hours per day would be able to complete how many units of work in $y$ days: -

(A) $\frac{x^2}{y^3}$

(B) $\frac{x^3}{y^2}$

(C) $\frac{y^2}{x^3}$

(D) $\frac{y^3}{x^2}$

74. An electric pump can fill a tank in 3 hours. Because of a leak in the tank, it took $3\frac{1}{2}$ hours to fill the tank. If the tank is full, how much time will the leak take to empty it?

(A) 21 hours

(B) 23 hours

(C) 19 hours

(D) 24 hours

75. In a caravan, in addition to 50 hens there are 45 goats and 8 camels with some keepers. If the total number of feet be 224 more than the number of heads, find the number of keepers.

(A) 20

(B) 16

(C) 15

(D) 18

76. If $\left(\frac{1}{5}\right)^{3y} = 0.008$, then the value of $(0.25)^y$ is

(A) 0.26

(B) 0.24

(C) 0.27

(D) 0.25

77. If 15 men, working 9 hours a day, can reap a field in 16 days, in how many days will 18 men reap the field, working 8 hours a day?

(A) 18

(B) 15

(C) 20

(D) 16

78. A sum of Rs. 800 amounts to Rs. 920 in 3 years at simple interest. If the interest rate is increased by 3%, it would amount to how much?

(A) Rs. 995

(B) Rs. 992

(C) Rs. 980

(D) Rs. 1050

79. Two numbers are in the ratio of 15 : 11. If their H.C.F. is 13, then the numbers are

(A) 198, 143

(B) 195,143

(C) 195,141

(D) 198,141

80. If $2^x \times 8^{\frac{1}{5}} = 2^{\frac{1}{5}}$, then $x$ is equal to

(A) $\frac{1}{5}$

(B) $-\frac{1}{5}$

(C) $\frac{2}{5}$

(D) $-\frac{2}{5}$

81. 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. 7,500

(B) Rs. 8,000

(C) Rs. 8,500

(D) Rs. 9,000

82. A train 220 m long is running with a speed of 59 kmph. In what time will it pass a man who is running at 7 kmph in the direction opposite to that in which the train is going?

(A) 15 sec.

(B) 12 sec.

(C) 18 sec.

(D) 14 sec.

83. If 3 men or 6 boys can do a piece of work in 10 days, working 7 hours a day; how many days will it take to complete a piece of work twice as large with 6 men and 2 boys working together for 8 hours a day

(A) 6

(B) $7\frac{1}{2}$

(C) $8\frac{1}{2}$

(D) 9

84. Three different containers contain 496 litres, 403 litres and 713 litres of mixtures of milk and water respectively. What biggest measure can measure all the different quantities exactly?

(A) 1 litre

(B) 7 litres

(C) 31 litres

(D) 41 litres

85. The sum of the ages of 5 children born at the intervals of 3 years each is 50 years. Then the age of the youngest child is

(A) 4 years

(B) 8 years

(C) 10 years

(D) None of these

86. If $\sqrt{1+\frac{55}{729}}=1+\frac{x}{27}$, then the value of $x$ is

(A) 1

(B) 3

(C) 5

(D) 7

87. A crate of mangoes contains one bruised mango for every 30 mangoes in the crate. If 3 out of every 4 bruised mangoes are considered unsalable, and there are 12 unsalable mangoes in the crate, then how many mangoes are there in the crate?

(A) 460

(B) 430

(C) 480

(D) 450

88. In how many ways can a cricket, eleven be chosen out of a batch of 15 players?

(A) 1365

(B) 1400

(C) 1465

(D) 1395

89. A man bought a horse and a carriage for Rs. 3000. He sold the horse at a gain of 20% and the carriage at a loss of 10%, thereby gaining 2% on the whole. Find the cost of the horse.

(A) 1400

(B) 1200

(C) 1500

(D) 1300

90. A sum was put at simple interest at a certain rate for 3 years. Had it been put at 2% higher rate, it would have fetched Rs. 360 more. Find the sum.

(A) Rs. 7,500

(B) Rs. 6,500

(C) Rs. 8,200

(D) Rs. 6,000

91. Two pipes A and B can fill a tank in 36 hours and 45 hours respectively. If both the pipes are opened simultaneously, how much time will be taken to fill the tank?

(A) 30 hours

(B) 25 hours

(C) 35 hours

(D) 20 hours

92. The number of girls in a class is 5 times the number of boys. Which of the following cannot be the total number of children in the class?

(A) 24

(B) 30

(C) 35

(D) 42

**93.** If $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a + b\sqrt{3}$, then

(A) $a = -11, b = -6$

(B) $a = -11, b = 6$

(C) $a = 11, b = -6$

(D) $a = 6, b = 11$

**94.** Due to a reduction of $6\frac{1}{4}\%$ in the price of sugar, a man is able to buy 1 kg more for Rs. 120. The original rate of sugar is:

(A) 8

(B) 9

(C) 10

(D) 12

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

(A) $29\frac{1}{5}$

(B) $37\frac{1}{4}$

(C) 42

(D) 54

**96.** Two students appeared at 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

**97.** Two pipes A and B can fill a tank in 24 min. and 32 min. respectively. If both the pipes are opened simultaneously, after how much time B should be closed so that the tank is full in 18 minutes?

(A) 9 minutes

(B) 12 minutes

(C) 8 minutes

(D) 15 minutes

**98.** Find a number such that when 15 is subtracted from 7 times the number, the result is 10 more than twice the number:

(A) 5

(B) 7

(C) 8

(D) 6

**99.** The smallest number, that must be added to 1780 to make it a perfect square is

(A) 70

(B) 68

(C) 69

(D) 65

**100.** If the number 653 $xy$ is divisible by 90, then $(x + y) = ?$

(A) 2

(B) 3

(C) 4

(D) 6

SPACE FOR ROUGH WORK

SEAL

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