Dr. JK Global Academy

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Question Paper for: Event No: 31 / **Sub:** Maths / **For Classes:** 6th to 10th

Answer All Questions.   **Max Marks:**25   **Time:**60min

Directions—(Q. 1–6) What should come in place of the question mark (?) in the following questions ?

1. $196 \times 948 \div 158 = ?$
(A) 1156
(B) 1200
(C) 1188
(D) 1176

2. $(786 \times 64) \div 48 = ?$
(A) 1050
(B) 1024
(C) 1048
(D) 1036

3. $3 \cdot 5 + 11 \cdot 25 \times 4 \cdot 5 - 32 \cdot 5 = ?$
(A) 18·275
(B) 21·625
(C) 32·375
(D) 25·45

4. $(2640 \div 48) \times (2240 \div 35) = ?$
(A) 3520
(B) 3515
(C) 3495
(D) 3490

5. $7414 + 3698 + 1257 + 1869 = ?$
(A) 14328
(B) 14438
(C) 13428
(D) None of these

6. $(98360 + 25845 - 36540) \div 2500 = ?$
(A) 36·585
(B) 30·082
(C) 32·085
(D) 35·066

Directions—(Q. 7–11) What should come in place of the question mark (?) in the following number series ?

7. 1, 9, 25, 49, ?, 169
(A) 100
(B) 64
(C) 81
(D) 121

8. 3, 23, 43, ?, 83, 103
(A) 33
(B) 53
(C) 63
(D) None of these

9. 748, 737, 715, 682, 638, ?
(A) 594
(B) 572
(C) 581
(D) None of these

10. 121, 117, 108, 92, 67, ?
(A) 31
(B) 29
(C) 41
(D) 37

11. 50, 26, 14, ?, 5, 3·5
(A) 6
(B) 8
(C) 10
(D) 12

12. The ratio of ducks and frogs in a pond is 37 : 39 respectively. The average number of ducks and frogs in the pond is 152. What is the number of frogs in the pond ?
(A) 148
(B) 152
(C) 156
(D) 144

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13. The number of employees in Companies A, B and C are in a rtio of 4 : 5 : 6 respectively. If the number of employees in the three Companies is increased by 25%, 30% and 50% respectively, what will be the new ratio of employees working in Companies A, B and C respectively ?
(A) 13 : 10 : 18
(B) 10 : 13 : 17
(C) 13 : 15 : 18
(D) None of these

14. The average of five positive numbers is 213. The average of the first two numbers is 233·5 and the average of last two numbers is 271. What is the third number ?
(A) 64
(B) 56
(C) 106
(D) Cannot be determined

15. Sonali invests 15% of her monthly salary in insurance policies. She spends 55% of her monthly salary in shopping and on household expenses. She saves the remaining amount of Rs. 12,750. What is Sonali's monthly income ?
(A) Rs. 42,500
(B) Rs. 38,800
(C) Rs. 40,000
(D) Rs. 35,500

16. In how many different ways can the letters of the word 'ARISE' be arranged ?
(A) 90
(B) 60
(C) 180
(D) 120

17. What **approximate** amount of compound interest can be obtaied on an amount of Rs. 9650 at the rate of 6 p.c.p.a. at the end of 3 years ?
(A) Rs. 1737
(B) Rs. 1920
(C) Rs. 1720
(D) Rs. 1843

18. A milkman sells 120 litres of milk for Rs. 3360 and he sells 240 litres of milk for Rs. 6120. How much concession does the trader give per litre of milk, when he sells 240 litres of milk ?
(A) Rs. 2
(B) Rs. 3·5
(C) Rs. 2·5
(D) Rs. 1·5

19. When 3626 is divided by the square of a number and the answer so obtained is multiplied by 32, the final answer obtained is 2368. What is the number ?
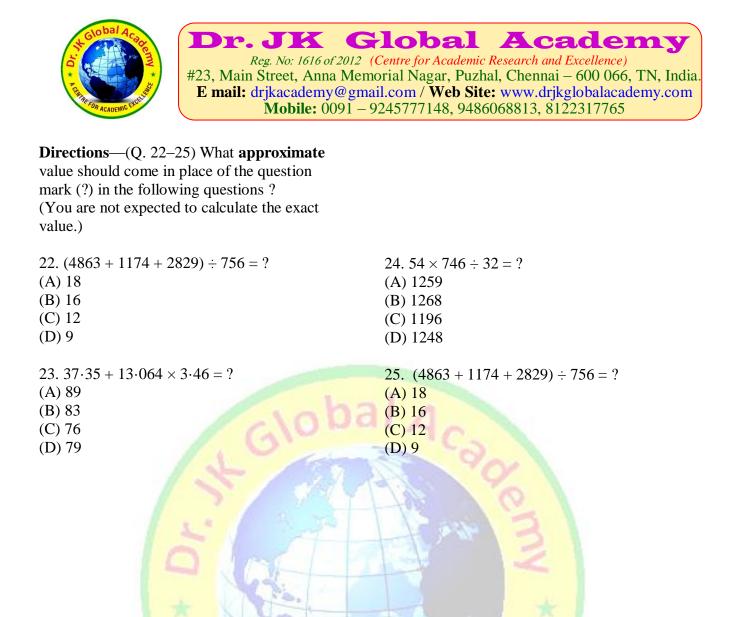(A) 7
(B) 36
(C) 49
(D) 6

20. The sum of the two digits of a two digit number is 14. The difference between the first digit and the second digit of the two digit number is 2. What is the product of the two digits of the two digit number ?
(A) 56
(B) 48
(C) 45
(D) Cannot be determined

21. A car runs at the speed of 50 kms per hour when not serviced and runs at 60 kms/hr. when serviced. After servicing the car covers a certain distance in 6 hours. How much time will the car take to cover the same distance when not serviced ?
(A) 8·2 hours
(B) 6·5 hours
(C) 8 hours
(D) 7·2 hours

Directions—(Q. 22–25) What **approximate** value should come in place of the question mark (?) in the following questions ? (You are not expected to calculate the exact value.)

22. $(4863 + 1174 + 2829) \div 756 = ?$
(A) 18
(B) 16
(C) 12
(D) 9

23. $37 \cdot 35 + 13 \cdot 064 \times 3 \cdot 46 = ?$
(A) 89
(B) 83
(C) 76
(D) 79

24. $54 \times 746 \div 32 = ?$
(A) 1259
(B) 1268
(C) 1196
(D) 1248

25. $(4863 + 1174 + 2829) \div 756 = ?$
(A) 18
(B) 16
(C) 12
(D) 9