

QA section A

1. The product of 10% of a positive number and 5 % of the same number is 0.125. What is the half of that number?

- (a) 2.5
- (b) 2.7
- (c) 3
- (d) 5

2. A 480 meter long train crosses a platform in 240 seconds. What is the speed of the train?

- (a) 4 m/ s
- (b) 2 m / s
- (c) 3 m / s
- (d) Cannot be determined

3. The sum of the two numbers is 35 and their product is 250. What is the sum of the reciprocals of these numbers.

- (a) $6/25$
- (b) $4/25$
- (c) $9/50$
- (d) $7/50$

4. Find the maximum number of girls among them 2923 bags and 3239 eyeliners can be distributed in such a way that each student gets the same number of bags and eyeliners.

- (a) 80
- (b) 79
- (c) 78
- (d) 81

5. The price of 8 chairs is equal to that of 2 tables. The price of 12 chairs and 2 tables together is 4000. The total price of 10 chairs and 1 table is:

- (a) 2700
- (b) 2800
- (c) 1900
- (d) 2870

6. If 30% of $(x-y) = 20%$ of $(x + y)$, then what percent of x is y ?

- (a) 25
- (b) 20
- (c) 30
- (d) 24

7. A news paper seller had some news papers. He sells 80% news papers and still has 400 news papers. Originally he had:

- (a) 2000
- (b) 1299
- (c) 2200
- (d) 3000

8. Nitin and Vivek can do a work in 12 days, Vivek and Vikas in 15 days, Vikas and Nitin in 20 days. If Nitin, Vivek and Vikas work together, they will complete the work in :

- (a) 5 days
- (b) 10 days
- (c) $4\frac{7}{6}$ days
- (d) 15 days

9. In a metro the ratio of the no of male and female is 8:5. If there are 160 female, the total no of passengers in a metro is:

- (a) 416
- (b) 260
- (c) 250
- (d) 100

10. Ram, Shyam and Mohan hired a taxi for Rs. 850 and used it for 5, 9 and 11 hours respectively. The hired charges paid by Mohan is:

- (a) 374
- (b) 375
- (c) 280
- (d) 290

11. 42 men complete a piece of work in 12 days. In how many days will 21 men complete the same work?

- (a) 24
- (b) 22
- (c) 20
- (d) 19

12. Aashu and Vasu can do a work in 10 days, Vasu and Ganesh can do the same work in 15 days, Ganesh and Aashu in 20 days. If Aashu, Vasu and Ganesh work together, they will complete the work in:

- (a) $13\frac{1}{20}$
- (b) $11\frac{10}{13}$
- (c) $12\frac{1}{12}$
- (d) $12\frac{1}{13}$

13. In what time will a train 150 m long cross a tower, if its speed be 180 km/hr:

- (a) 3.5 Sec.
- (b) 3 Sec.
- (c) 4 Sec.
- (d) 4.5 Sec.

14. Six women and 10 children together take six days to complete a piece of work. How many days will 10 children take to complete that piece of work if six women together can complete the same piece of work in 10 days?

- A) 21
- B) 18
- C) 12
- D) 15

15. The ratio of the monthly incomes of Sneha, Tina and Akruti is 95:110:116. If Sneha's annual income is Rs.3,42,000, what is Akruti's annual income?
- A) Rs.3, 96, 900
B) Rs.5, 63, 500
C) Rs.4, 17, 600
D) Rs.3, 88, 000
16. The average of four consecutive even numbers A, B, C and D is 37. What is the product of A and C?
- A) 1520
B) 1368
C) 1292
D) 1224
17. The perimeter of a square is twice the perimeter of a rectangle. If the perimeter of the square is 56 cm and the length of the rectangle is 9 cm, what is the difference between the breadth of the rectangle and the side of the square?
- A) 7cm
B) 9cm
C) 11cm
D) 5cm
18. A truck covers a distance of 256 km at the speed of 32 km/h. What is the average speed of a car which travels a distance of 160 km more than the truck in the same time?
- A) 46 km/h
B) 52 km/h
C) 49 km/h
D) 64 km/h
19. Sushil scored 103 marks in Hindi, 111 marks in Science, 98 marks in Sanskrit, 110 marks in Maths and 88 marks in English. If the maximum marks of each subject are equal and if Sushil scored 85 per cent marks in all the subjects together, find the maximum marks of each subject.
- A) 110
B) 120
C) 115
D) 100
20. A man riding a bicycle completes one lap of a square field along its perimeter at the speed of 39.6 km/h in 1 minute 20 seconds. What is the area of the field?
- A) 52900 sq m
B) 44100 sq m
C) 48400 sq m
D) Cannot be determined
21. At present, Tarun is twice the age of Vishal and half the age of Tanvi. After four years, Tarun will be 1.5 times Vishal's age and Tanvi will be 2.5 times of Vishal's age. What is Tanvi's present age?
- A) 12 years

- B) 8 years
- C) 20 years
- D) 16 years

22. The difference between the compound interest and the simple interest accrued on an amount at the end of three years at the rate of 15% is Rs.453.6. What is the amount?

- A) Rs.4,500
- B) Rs.6,400
- C) Rs.7,200
- D) Rs.8,000

23. Pankaj, Sanjay and Pratima start running around a circular stadium and complete one round in 12 sec, 8 sec and 15 sec respectively. After what time will they meet again at the starting point?

- A) 3 min 30 sec
- B) One min
- C) Three min
- D) Two min

24. On Teachers' Day, 3200 sweets were to be equally distributed among a certain number of children. But on that particular day 80 children remained absent and hence each child got two sweets extra. How many children were originally supposed to be there?

- A) 320
- B) 500
- C) 540
- D) 400

25. The area of a circle is equal to the area of a rectangle with perimeter equal to 35 m and breadth equal to 5.5 m. What is the area of the circle?

- 1) 88 sq m
- 2) 72 sq m
- 3) 66 sq m
- 4) 54 sq m
- 5) None of these

25. In how many different ways can the letters of the word 'VIRTUAL' be arranged among themselves?

- A) 840
- B) 5040
- C) 2520
- D) 1680

26. The compound interest accrued in two years on a principal amount of Rs.16,250 is Rs.5,616. What is the rate of interest ?

- A) 22%
- B) 16%
- C) 18%
- D) Cannot be determined

27. The average height of 21 girls was recorded as 148 cm. When the teacher's height was included, the average of their heights increased by 1 cm. What was the height of the teacher?

- A) 156cm
- B) 168cm
- C) 170cm
- D) 162cm

28. Kamya purchased an item of Rs. 46,000 and sold it at loss of 12 per cent. With that amount she purchased another item and sold it at a gain of 12 per cent. What was her overall gain/loss?

- (A) Loss of Rs. 662.40
- (B) Profit of Rs. 662.40
- (C) Loss of Rs. 642.80
- (D) Profit Rs. 642.80

29. The sum of six consecutive even numbers of set-A is 402. What is the sum of another set-B of four consecutive numbers whose lowest number is 15 less than double the lowest number of set- A?

- (A) 444
- (B) 442
- (C) 440
- (D) 446

30. A 280 metre long train moving with an average speed of 108 km/hr crosses a platform in 12 seconds. A man crosses the same platform in 10 seconds. What is the speed of the man in meter / second?

- (A) 5 m/s
- (B) 8 m/s
- (C) 12 m/s
- (D) Cannot be determined