

Q1. $\frac{1}{5}$ of a number exceeds $\frac{1}{7}$ of the same number by 10. The number is.

- (a) 175
- (b) 200
- (c) 225
- (d) 150

Q2. A number when divided by 899 gives a remainder 63. If the same number is divided by 29. The remainder will be

- (a) 6
- (b) 3
- (c) 2
- (d) 5

Q3. Sum of all natural numbers between 100 & 200, which are multiple of 3 is?

- (a) 4980
- (b) 4950
- (c) 5000
- (d) 4600

Q4. The divisor is 25 times the quotient & 5 times the remainder. If quotient is 16, the dividend is

- (a) 6400
- (b) 6460
- (c) 6480
- (d) 6490

Q5. The digit in unit's place of the product $81 \times 82 \times 83 \dots \times 89$ is?

- (a) 0
- (b) 1
- (c) 2
- (d) 3

Q6. What is the sum of first 19 odd numbers?

- (a) 361
- (b) 381
- (c) 371
- (d) 391

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Q7. What is the value of $1^2 + 2^2 + \dots + 10^2$?

- (a) 315
- (b) 395
- (c) 375
- (d) 385

Q8. The L.C.M. of two numbers is 280 and their ratio is 7 : 8. The two numbers are?

- (a) 35, 40
- (b) 40, 45
- (c) 25, 50
- (d) 31, 36

Q9. In a farm there are cows and hens. If heads are counted there are 180, if legs are counted there are 420. The number of cows in the farm is

- (a) 130
- (b) 50
- (c) 150
- (d) 30

Q10. A school group charters three identical buses and occupies $\frac{4}{5}$ of the seats. After $\frac{1}{4}$ of the passengers leave, the remaining passengers use only two of the buses. The fraction of the seats on the two buses that are now occupied is

- (a) $\frac{8}{9}$
- (b) $\frac{7}{9}$
- (c) $\frac{7}{10}$
- (d) $\frac{9}{10}$

Q11. The difference between simple and compound interest (compounded annually) on a sum of money for 2 years at 10% per annum is Rs. 65. The sum is

- (a) Rs. 65650
- (b) Rs. 65065
- (c) Rs. 6565
- (d) Rs. 6500

Q12. The compound interest on a certain sum of money invested for 2 years at 5% per annum is Rs. 328. The simple interest on the sum, at the same rate and for the same period will be:

- (a) Rs. 320
- (b) Rs. 308
- (c) Rs. 300
- (d) Rs. 287

Q13. A sum of money is invested at 20% compound interest (compounded annually). It would fetch Rs. 723 more if interest is compound half-yearly. The sum is

- (a) Rs. 72,300
- (b) Rs. 30,000
- (c) Rs. 20,000
- (d) Rs. 7,500

Q14. A tank of oil was $\frac{4}{5}$ full. When 6 bottles of oil was taken out and 4 bottles of oil was poured into it, it was $\frac{3}{4}$ full. How many bottles of oil can fill the tank?

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

Q15. The value of $\frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{3-\sqrt{8}}$ is

- (a) 0
- (b) 1
- (c) 5
- (d) 7

Q16. There would be a loss of 10% if an article is sold for 43.20. At what price should it be sold to gain 10%?

- (a) Rs. 48.80
- (b) Rs. 52.80
- (c) Rs. 56.20
- (d) Rs. 56.80

Q17. Two mobile phones are sold at Rs. 6000 each. The first mobile is sold at 20% profit and the other one at 25% loss. What is the percentage of loss or profit incurred during the deal?

- (a) 7.7% loss
- (b) 8.3% loss
- (c) 9% loss
- (d) 2% profit

Q18. If $x \tan 60^\circ + \cos 45^\circ = \sec 45^\circ$ then the value of $x^2 + 1$ is

- (a) $\frac{6}{7}$
- (b) $\frac{7}{6}$
- (c) $\frac{5}{6}$
- (d) $\frac{6}{5}$

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Q19. AB is the diameter of a circle with center O. P be a point on it. If $\angle POA = 120^\circ$. Then, $\angle PBO = ?$

- (a) 60°
- (b) 50°
- (c) 120°
- (d) 45°

Q20. The average of 10 items was found to be 80 but while calculating, one of the items was counted as 60 instead of 50. Then the correct average would have been:

- (a) 69
- (b) 79.25
- (c) 79
- (d) 79.5

Q21. A tyre has 2 punctures. The first puncture alone would have made the tyre flat in 9 minutes and the second alone would have done it in 6 minutes. If air leaks out at a constant rate, how long does it take both the punctures together to make it flat?

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

Q22. A and B together can do a piece of work in 12 days which B and C together can do in 16 days. After A has been working at it for 5 days and B for 7 days. C finishes it in 13 days. In how many days B could finish the work?

- (a) 48 days
- (b) 24 days
- (c) 16 days
- (d) 12 days

Q23. Three circles of radius a, b, c touch each other externally. The area of the triangle formed by joining their centres is

- (a) $\sqrt{(a + b + c)abc}$
- (b) $(a + b + c)\sqrt{ab + bc + ca}$
- (c) $ab + bc + ca$
- (d) None of the above

Q24. If a metallic cone of radius 30 cm and height 45 cm is melted and recast into metallic spheres of radius 5 cm, find the number of spheres.

- (a) 81
- (b) 41
- (c) 80
- (d) 40

Q25. Chords AB and CD of a circle intersect at E and are perpendicular to each other. Segments AE, EB and ED are of lengths 2 cm, 6 cm and 3 cm respectively. Then the length of the diameter of the circle in cm is

- (a) $\sqrt{65}$
- (b) $\frac{1}{2}\sqrt{65}$
- (c) 65
- (d) $\frac{65}{2}$

Q26. For every set of 19 kites sold, a vendor gives 1 kite extra, free of cost. In order to give a discount of 10%, the number of extra kites he should give in a sale of 27 kites to the nearest integer is

- (a) 3
- (b) 6
- (c) 7
- (d) 8

Q27. A ruby stone was bought for Rs. 1600 at Jaipur. A sum of Rs. 2400 was spent on making a ring with the ruby stone. It was advertised for sale at Bombay for Rs. 7800. If a discount of 10% was given, then the % profit made was

- (a) 55%
- (b) 68.5%
- (c) 75.5%
- (d) 80%

Q28. The area of a circle is proportional to the square of its radius. A small circle of radius 3 cm is drawn within a larger circle of radius 5 cm. Find the ratio of the area of the annular zone to the area of the larger circle. (Area of the annular zone is the difference between the area of the larger circle and that of the smaller circle).

- (a) 9 : 16
- (b) 9 : 25
- (c) 16 : 25
- (d) 16 : 27

Q29. The average age of Ram and his two children is 17 years and the average age of Ram's wife and the same children is 16 years. If the age of Ram is 33 years, the age of his wife is (in years):

- (a) 31
- (b) 32
- (c) 35
- (d) 30

Q30. One side of a square is increased by 30%. To maintain the same area, the other side will have to be decreased by

- (a) $23\frac{1}{13}\%$
- (b) $76\frac{12}{13}\%$
- (c) 30%
- (d) 15%

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