

Quantitative Aptitude for RRB NTPC

Q1. Two trains of length 140 m and 100 m long are going on a parallel track in same direction at a speed of 90 kmph and 18 kmph respectively. What is the time taken for the trains to cross each other completely?

- (a) 12 sec
- (b) 10 sec
- (c) 16 sec
- (d) 24 sec

Q2. If a pizza is cut into eight equal parts, then what is the angle made by each sector?

- (a) 360°
- (b) 90°
- (c) 180°
- (d) 45°

Q3. A man sells a product for Rs 2970 with a profit of 10%. What is the cost price of the product?

- (a) Rs 2650
- (b) Rs 2850
- (c) Rs 2750
- (d) Rs 2700

Q4. Ajitha borrowed Rs 90,000 at 10% per annum simple interest. On the same day, she lent the sum to her friend at the same rate but compounded annually. How much does she gain at the end of 3 yrs?

- (a) Rs 2790
- (b) Rs 2810
- (c) Rs 2800
- (d) Rs 2570

Q5. Amit and Bhanu together have Rs 1500. If $\frac{1}{4}$ th of Amit's amount is equal to $\frac{1}{2}$ th of Bhanu's, then how much amount Amit has?

- (a) 500
- (b) 1000
- (c) 1250
- (d) 200



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Q6. Anand switched on a bulb at 1 : 23 : 45 hrs and switch it off on the same day at 5 : 43 : 21 hrs. For how long was the bulb in switch on mode?

- (a) 4 : 20 : 24
- (b) 4 : 40 : 06
- (c) 4 : 19 : 36
- (d) 3 : 20 : 36

Q7. If angles of a triangle are in the ratio 3 : 4 : 5, then the angles are

- (a) $30^\circ, 40^\circ, 50^\circ$
- (b) $45^\circ, 60^\circ, 75^\circ$
- (c) $60^\circ, 80^\circ, 100^\circ$
- (d) $48^\circ, 64^\circ, 80^\circ$

Q8.

$$\text{If } 2\cos^2x - \sin^2x = -1/4$$

And $0^\circ \leq x \leq 90^\circ$, then $x = ?$

- (a) 30°
- (b) 60°
- (c) 90°
- (d) 45°

Q9.

$$\text{If } a + \frac{1}{a} = 3, \text{ then } a^4 + \frac{1}{a^4} = ?$$

- (a) 47
- (b) 62
- (c) 23
- (d) 51

Q10.

Find the value of

$$(20 + (2 \times 10) \div (2 + 3) - 2) + 1$$

- (a) 20
- (b) 23
- (c) 26
- (d) 10

Q11. A man incurs a $16\frac{2}{3}\%$ loss by selling a product at Rs 250.

What was the cost price of the product?

- (a) Rs 300
- (b) Rs 320
- (c) Rs 275
- (d) Rs 500

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Q12. What would be the result of the following expression?

$$\frac{597 \times 597 - 597 \times 3 + 3 \times 3}{597 \times 597 \times 597 + 3 \times 3 \times 3}$$

- (a) 1/595
- (b) 1/600
- (c) 1/12
- (d) 1

Q13. What is the difference between $0.\overline{521}$ and $0.\overline{297}$

- (a) 73/999
- (b) 301/999
- (c) 251/999
- (d) 224/999

Q14. For an amount of Rs 14000 a simple interest of 7% per annum yielded Rs 15960. In how many years was the maturity value attained?

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

Q15. A 2m long scooter moves past a plank completely in 5s. the length of the plank is 3 m. what is the speed of the scooter?

- (a) 1.5 m/s
- (b) 1.25 m/s
- (c) 2.5 m/s
- (d) 1 m/s


Q16. An angle is 4° more than its complement. What is the measure of the angle?

- (a) 52°
- (b) 47°
- (c) 102°
- (d) 56°

Q17. Find the value of $\frac{4 \sin^2 \theta}{\sin^2 \theta} - \frac{(1 - \cos^2 \theta)}{\cos^2 \theta} = ?$

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

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Q18. A sum of money was distributed among A, B, C and D in a proportion of 7 : 5 : 3 : 4 respectively. If A gets Rs 1600 more than C, then what was D's share?

- (a) Rs 2000
- (b) Rs 2400
- (c) Rs 1600
- (d) Rs 2200

Q19. A pipe fills $\frac{4}{9}$ of a cistern in 24 min. How long will it take to completely fill the cistern?

- (a) 54 min
- (b) 48 min
- (c) 64 min
- (d) 36 min

Q20. If square is cut along its two diagonal, what is the angle it makes at the top of the triangle thus made by the intersection of diagonals?

- (a) 30°
- (b) 90°
- (c) 60°
- (d) 180°

Q21. Rs 60500 is divided among Amit, Bhusan and Chipku such that Amit receives $\frac{2}{9}$ as much as Bhusan and Chipku together and Bhusan receives $\frac{3}{7}$ as much as Amit and Chipku together. What is the share of Chipku (in Rs)?

- (a) 29850
- (b) 30120
- (c) 31350
- (d) 37250


Q22. The average age of a class of 6 teachers is x years. Four new teachers having ages $x - 2$, $x + 2$, $x + 4$ and $x + 6$ joins the class. What is the new average age (in years) of the teachers?

- (a) $x + 1$
- (b) $x + 2$
- (c) $2.5x$
- (d) $x + 2.5$

Q23. A dealer sells two machines at Rs 12000 each. On one it gains 32% and on the other it loses 32%. What is its profit/loss percentage in the whole transaction?

- (a) No gain and no loss
- (b) 1% loss
- (c) 18% profit
- (d) 10.24% loss

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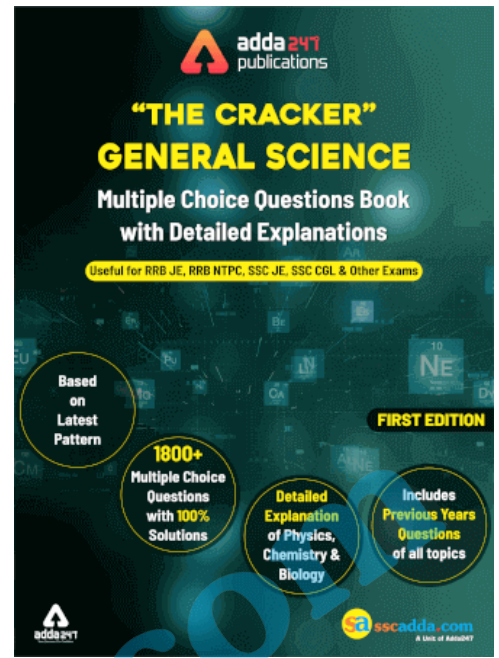
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Q24. How much water (in litres) must be added to 80 litres solution of milk and water containing 10% milk, so that it becomes a 5% milk solution?

- (a) 10
- (b) 20
- (c) 40
- (d) 80

Q25. A bus travels $\frac{2}{5}$ of a total journey at its usual speed. The remaining distance was covered by bus at $\frac{6}{7}$ of its usual speed. Due to slow speed it reaches its destination 50 minutes late. If the total distance is 200 kms, then what is the usual speed (in km/hr) of bus?

- (a) 20.57
- (b) 24
- (c) 28
- (d) 26.52



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