

## Quant Mega Quiz for RRB NTPC

**Q1. The cost price of 36 books is equal to the selling price of 30 books. Profit in percentage is**

- (a) 20%
- (b) 18%
- (c)  $16\frac{4}{6}\%$
- (d)  $8\frac{2}{6}\%$

**Q2. On selling 12 copies of a book for Rs. 1800, the profit is equal to the cost price of 3 books. What is the cost price of each book?**

- (a) Rs. 120
- (b) Rs. 150
- (c) Rs. 1200
- (d) Rs. 1500

**Q3. In what ratio mixtures of 30% concentration of alcohol and 50% concentration of alcohol are to be added so that the resultant mixture will be of 45% concentration of alcohol?**

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

**Q4. The ratio of three numbers is 3 : 2 : 5 and the sum of their squares is 1862. Which one is the smallest number among them?**

- (a) 24
- (b) 21
- (c) 14
- (d) 35

**Q5. The average consumption of rice per person per month in a family of 8 adults and some kids is 10.8 kg, where the average consumption per person for adult is 15 kg and for kids is 6 kg. What is the number of kids in the family?**

- (a) 8
- (b) 6
- (c) 7
- (d) 9

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**Q6. The average of 40 observations was 28. It was later found that in two observations, 42 was taken instead of 24 and 12 instead of 62. What is the correct average?**

- (a) 26.8
- (b) 23.8
- (c) 28.8
- (d) 25.8

**Q7. Each of the two equal sums of money is invested at 6% and 4% per annum simple interest. Second principal is invested for two more years as compared to first principal and thus amount received on each of the principal is Rs. 18600. What sum of total money put on lend?**

- (a) Rs. 12000
- (b) Rs. 24000
- (c) Rs. 15000
- (d) Rs. 30000

**Q8. In how much time will the simple interest be  $\frac{2}{5}$  of principal at the rate of 8% per annum?**

- (a) 8 years
- (b) 7 years
- (c) 5 years
- (d) 6 years

**Q9. A dealer sells two bikes at Rs 14000 each. On one he gains 20% and on the other he loses 20%. Had he marked up their prices by 25% and give 10% discount, then what is his profit/loss percentage in the transaction?**

- (a) No loss & no loss
- (b) 12.5% loss
- (c) 10.24% loss
- (d) 12.5% profit

**Q10. The difference between a discount of 35% on Rs. 1700 and two successive discounts of 26% and 4% on the same amount is :-**

- (a) 92.48
- (b) 98.68
- (c) 102.68
- (d) 104.68

**Q11. A and B can together do a piece of work in 6 days and A alone can do it in 9 days. The number of days B will take to do it alone is?**

- (a) 18 days
- (b) 24 days
- (c) 9 days
- (d) 12 days

**Q12. A man can row upstream at 12 km/hr and downstream at 18 km/hr. The man's rowing speed in still water is?**

- (a) 15 km/hr
- (b) 5 km/hr
- (c) 3 km/hr
- (d) 10 km/hr

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**Q13. If 8% of a number is added to it, the result is 810 what is that number?**

- (a) 700
- (b) 750
- (c) 722
- (d) 745

**Q14. Which amongst the following is less than  $\frac{1}{5}$ ?**

- (a)  $\frac{8}{35}$
- (b)  $\frac{8}{37}$
- (c)  $\frac{2}{11}$
- (d)  $\frac{8}{39}$

**Q15. A profit of Rs. 960 is divided between A and B in the ratio  $\frac{1}{3}:\frac{1}{2}$ . The difference of their profit is:**

- (a) Rs. 120
- (b) Rs. 160
- (c) Rs. 192
- (d) Rs. 240

**Q16. How much time will be taken by a train 100 metres long to cross a pole at the speed of 40 km/hr.?**

- (a) 9 seconds
- (b) 10 seconds
- (c)  $9\frac{2}{3}$  seconds
- (d)  $9\frac{1}{2}$  seconds

**Q17. A chord of length 16 cm is drawn in a circle of radius 10 cm. The distance of the chord from the centre of the circle is:**

- (a) 8 cm
- (b) 6 cm
- (c) 4 cm
- (d) 12 cm

**Q18. If in  $\Delta ABC$ ,  $DE \parallel BC$ ,  $AB = 7.5\text{cm}$ ,  $BD = 6\text{cm}$  and  $DE = 2\text{cm}$ , then the length of BC in cm is:**

- (a) 6
- (b) 8
- (c) 10
- (d) 10.5

**Q19.**

$$\sqrt{44100} + 350 \times \frac{2}{5} = ?$$

- (a) 200
- (b) 450
- (c) 250
- (d) 350

**Q20. In a city, 40% of the people are poor. If total population of city is 30,000 then find the number of rich people.**

- (a) 20000
- (b) 18000
- (c) 12000
- (d) 12500

**Q21. What should be the average speed of a car to cover a distance of 189 km in 3.5 hours?**

- (a) 15 m/s
- (b) 54 m/s
- (c) 27 m/s
- (d) 30 m/s

**Q22. What will be the 40% of a number whose 200 per cent is 90?**

- (a) 18
- (b) 45
- (c) 16
- (d) 36

**Q23. The centroid of a triangle is the point where**


- (a) the medians meet
- (b) the altitudes meet
- (c) the right bisectors of the sides of the triangle meet
- (d) the bisectors of the angles of the triangle meet

**Q24. In a trapezium ABCD,  $AB \parallel CD$ ,  $AB < CD$ ,  $CD = 6$  cm and distance between the parallel sides is 4 cm. If the area of ABCD is  $16 \text{ cm}^2$ , then AB is**


- (a) 1 cm
- (b) 2 cm
- (c) 3 cm
- (d) 8 cm

**Q25. The simple interest on a sum for 5 years is two-fifth of the sum. The rate of interest per annum is:**

- (a) 1
- (b) 8
- (c) 6
- (d) 4



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