

Quantitative Aptitude for RRB NTPC

Q1. A takes 5 hours more time than that taken by B to complete a work. If working together they can complete the work in 6 hours, then the number of hours A takes to complete the work individually in:

- (a) 10
- (b) 15
- (c) 5
- (d) 7

Q2. A man sells an article at a loss of 10%. If he had received Rs. 9 more, he would have gained $12\frac{1}{2}\%$. The cost price of the article is:

- (a) Rs. 40
- (b) Rs. 36
- (c) Rs. 32
- (d) Rs. 48

Q3. The rate of interest p.a. increases from $8\frac{1}{3}\%$ to $9\frac{3}{8}\%$; a person's annual income from interest increases thereby Rs. 100. The amount invested was

- (a) Rs. 9,600
- (b) Rs. 10,200
- (c) Rs. 8,400
- (d) Rs. 12,000

Q4. The ratio in which Darjeeling Tea at Rs. 32 per kg is mixed with Assam Tea at Rs. 25 per kg so as to gain 20% by selling the mixture at Rs. 32.40 per kg is?

- (a) 4 : 3
- (b) 3 : 4
- (c) 5 : 2
- (d) 2 : 5

Q5. In a factory, the salary of each worker is increased in the ratio 22 : 25; but the number of workers is decreased by $26\frac{2}{3}\%$. Percentage increase or decrease in the total amount of total salary is:

- (a) $21\frac{3}{4}\%$ increase
- (b) $21\frac{3}{4}\%$ decrease
- (c) $16\frac{2}{3}\%$ increase
- (d) $16\frac{2}{3}\%$ decrease

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Q6. If 15 men can build a wall 100 metres long, 4 metres high and 60 cm thick in 25 days, then the number of men required to build a wall 80 metres long, 3 metres high and 40 cm. thick in half the time is:

- (a) 24
- (b) 6
- (c) 12
- (d) 18

Q7. A student walking at $2\frac{1}{2}$ km./hr. from the house, reaches the school 6 minutes later. In the next day he walks at $3\frac{1}{2}$ km./hr., reaches the school 6 minutes earlier starting at the same time. The distance of the school from the house is?

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

Q8. By selling a house to B at Rs. 4,860, A suffered a loss of 19%. B sold the house to C at a price for which A could gain 17%. Percentage of profit gained by B is:

- (a) $41\frac{1}{4}\%$
- (b) $36\frac{3}{5}\%$
- (c) $44\frac{4}{9}\%$
- (d) $42\frac{2}{7}\%$

Q9. Rs. 33,630 is divided amongst A, B and C such that the amount of A : amount of B = 3 : 7 and the amount of B : amount of C = 6 : 5. The money received by B is:

- (a) Rs. 18,762
- (b) Rs. 6,372
- (c) Rs. 12,390
- (d) Rs. 14,868

Q10. The difference between $\frac{5}{6}$ of Rs. 600 and $\frac{5}{6}\%$ of Rs. 600 is ?

- (a) Rs. 500
- (b) Rs. 50
- (c) Rs. 5
- (d) Rs. 495

Q11. Two numbers are respectively 30% and 40% less than a third number. What percent is the first number of the second?

- (a) 110.1%
- (b) 119.9%
- (c) 116.66%
- (d) 101.2%

Q12. A pump can fill a tank with water in 2 hours. Because of a leak in the tank it was taking $2\frac{1}{3}$ hours to fill the tank. The leak can drain all the water off the tank in.

- (a) 8 hours
- (b) 7 hours
- (c) $4\frac{1}{3}$ hours
- (d) 14 hours

Q13. A can do a piece of work in 4 hours; B and C can do it in 3 hours; A and C can do it in 2 hours. How long will B alone take to do it?

- (a) 10 hours
- (b) 12 hours
- (c) 8 hours
- (d) 24 hours

Q14. The difference between the simple and compound interest on a certain sum of money at 5% rate of interest per annum for 2 years is Rs. 15. Then the sum is:

- (a) Rs. 6,500
- (b) Rs. 5,500
- (c) Rs. 6,000
- (d) Rs. 7,000

Q15. A sum borrowed under compound interest doubles itself in 10 years. When will it become fourfold of itself at the same rate of interest?

- (a) 15 years
- (b) 20 years
- (c) 24 years
- (d) 40 years

Q16. The value of $25 - 5 [2 + 3 \{2 - 2(5 - 3) + 5\} - 10] \div 4$ is

- (a) 5
- (b) 23.25
- (c) 23.75
- (d) 25

Q17. The value of $(256)^{0.16} \times (16)^{0.18}$ is

- (a) 4
- (b) -4
- (c) 16
- (d) 256

Q18. If $x : y = 3 : 2$ then the ratio $2x^2 + 3y^2 : 3x^2 - 2y^2$ is equal to

- (a) 12 : 5
- (b) 6 : 5
- (c) 30 : 19
- (d) 5 : 3

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Q19.

If $A : B : C = 2 : 3 : 4$,

then $\frac{A}{B} : \frac{B}{C} : \frac{C}{A}$ is equal to

- (a) 8 : 9 : 16
- (b) 8 : 9 : 12
- (c) 8 : 9 : 24
- (d) 4 : 9 : 16

Q20. X's income is 20% more than that of Y. What percent is Y's income less than X?

- (a) $83\frac{1}{3}\%$
- (b) $16\frac{2}{3}\%$
- (c) $83\frac{2}{3}\%$
- (d) $16\frac{1}{3}\%$

Q21. The incomes of A and B are in the ratio 3 : 2 and their expenditures are in the ratio 5 : 3. If each saves Rs. 1,000, the income of B is?

- (a) Rs. 6,000
- (b) Rs. 5,000
- (c) Rs. 4,000
- (d) Rs. 3,000

Q22. A man bought a horse and carriage for Rs. 5,000 and sold the horse at a gain of 20 percent and the carriage at a loss of 10 percent, thus gaining 2 percent on his whole outlay. For how much was the horse bought?

- (a) Rs. 2,500
- (b) Rs. 2,000
- (c) Rs. 3,000
- (d) Rs. 3,200

Q23. The rate of interest on a sum of money is 4% per annum for the first two years, 6% per annum for the next 4 years and 8% per annum for the period beyond 6 years. If the simple interest accrued by the sum for a total period of 9 years is Rs. 1,120, the sum of money was?

- (a) Rs. 1,500
- (b) Rs. 2,000
- (c) Rs. 2,500
- (d) Rs. 3,000

Q24. By selling four articles per rupee a man loses 4%. If he would sell three articles per rupee, then the profit percent is?

- (a) 14%
- (b) 21%
- (c) 28%
- (d) 35%

Q25. Two trains, one from Howrah to Patna and the other from Patna to Howrah start simultaneously. After they meet, the trains reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds per hour is?

- (a) 2 : 3
- (b) 4 : 3
- (c) 6 : 7
- (d) 9 : 16

Q26. The ratio of cost price and sale price of an article is 10 : 11. The percentage of profit is?

- (a) 11.5%
- (b) 10.5%
- (c) 10%
- (d) 11%

Q27. A person standing on a railway platform 180 metres long noticed that a train which passed him is 8 seconds passed completely through the station in 20 seconds. Length of the train is?

- (a) 54 m
- (b) 108 m
- (c) 120 m
- (d) 176 m

Q28. A man after giving away $\frac{1}{4}$ of this money to one companion and $\frac{4}{5}$ of the remainder to another, has Rs 9 left. The amount of money was?

- (a) Rs. 45
- (b) Rs. 60
- (c) Rs. 36
- (d) Rs. 120

Q29. The sum of two numbers is 45 and their difference is $\frac{1}{9}$ of their sum. Their LCM is?

- (a) 200
- (b) 250
- (c) 100
- (d) 150

Q30. In an examination, A and B secured $\frac{6}{7}$ and $\frac{5}{6}$ respectively of full marks. If B secured 10 marks less than A, then the marks secured by B is:

- (a) 360
- (b) 350
- (c) 370
- (d) 340

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