

Quantitative Aptitude for RRB NTPC

Q1. A trader marked a watch 40% above the cost price and then gave a discount of 10%. He made a net profit of Rs. 468 after paying tax of 10% on the gross profit. What is the cost price of the watch?

- (a) Rs. 1200
- (b) Rs. 1800
- (c) Rs. 2000
- (d) Rs. 2340

Q2. A person wanted to buy some chair whose cost was 300 each. Seller offer him a discount such that after buying 15 chairs. The person have to pay the cost of 12 chairs and rest 3 chairs at Rs. 225 each. What is the discount percentage?

- (a) 5%
- (b) 20%
- (c) 15%
- (d) 10%

Q3. If the interest on Rs. 800 be more than the interest on Rs. 400 by Rs. 40 in 2 years, then the rate of interest per annum is:

- (a) 5%
- (b) $5\frac{1}{2}\%$
- (c) 6%
- (d) None of these

Q4. In covering a distance of 30 km, Abhay takes 2 hours more than Sameer. If Abhay doubles his speed, then he would take 1 hour less than Sameer. Abhay's speed (in km/hr) is

- (a) 5 km/hr
- (b) 8 km/hr
- (c) 6 km/hr
- (d) 10 km/hr

Q5.

$2^x = 4^y = 8^z$ and $xyz = 288$,
then value of $\frac{1}{2x} + \frac{1}{4y} + \frac{1}{8z}$ is

- (a) 11/12
- (b) 29/96
- (c) 11/96
- (d) 23/48

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Q6. A solid spherical ball is prepared by melting a cone and a cylinder having the same height and same base diameter equal to $2r$. Find the radius of the sphere.

- (a) $2^{1/3}r$
- (b) $2^{1/3}r^2$
- (c) $4^{1/3}r$
- (d) $18^{1/3}r$

Q7. The ratio of the length of the diagonal of rhombus is $2 : 5$. Then, the ratio of the area of the rhombus to the square on the shorter diagonal:

- (a) $5 : 4$
- (b) $5 : 2$
- (c) $2 : 5$
- (d) None of these

Q8. If $3x + 2y = 11$ & $kx + 4y = 22$ are coincide lines find value of k .

- (a) 5
- (b) 6
- (c) 0
- (d) -6

Q9. A man buys a certain number of orange at 20 for Rs. 60 and an equal number at 30 for Rs. 60. He mixes them and sells them 25 for Rs. 60. What is his gain or loss percent?

- (a) Gain of 4%
- (b) Loss of 4%
- (c) Neither gain nor loss
- (d) loss 5%

Q10. P, Q, R are employed to do a work for Rs 5750. P and Q together finished $19/23$ of work and Q and R together finished $8/23$ of the work. Wage of Q, in rupees, is

- (a) 2850
- (b) 3750
- (c) 2750
- (d) 1000

Q11. Deepa decided to donate 8% of her salary to an orphanage, On the day of donation she changed her mind and donated Rs. 2240 was 80% of what she had decided earlier. How much is Deepa's salary?

- (a) Rs. 36000
- (b) Rs. 42000
- (c) Rs. 35000
- (d) Rs. 45000

Q12. When the price of a radio was reduced by 20%, its sale increased by 80%. What was the net effect on the sale?

- (a) 44% increase
- (b) 44% decrease
- (c) 66% increase
- (d) 75% increase

Q13. If the price of sugar is increased by 7%, then by how much percent should a housewife reduce her consumption of sugar, to have no extra expenditure?

- (a) 7 over 107%
- (b) 107 over 100%
- (c) 100 over 107%
- (d) 7%

Q14. A sum of Rs. 4558 is divided among A, B and C such that A receives 20% more than C, and C receives 25% less than B. What is A's share in the amount?

- (a) Rs. 1548
- (b) Rs. 1720
- (c) Rs. 1290
- (d) Rs. 1345

Q15. A spider climbed $62\frac{1}{2}\%$ of the height of the pole in one hour and in the next hour it covered $12\frac{1}{2}\%$ of the remaining height. If the height of the pole is 192 m, then distance climbed in second hour is:

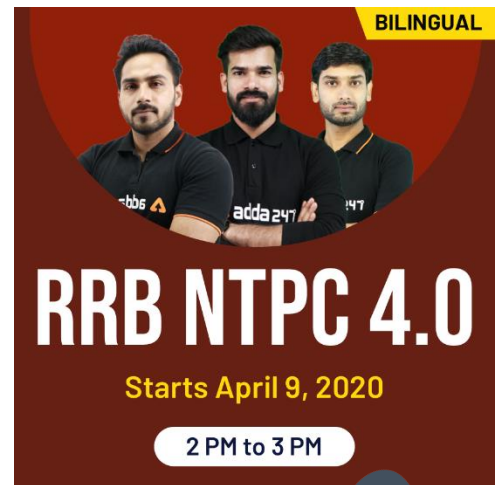
- (a) 3 m
- (b) 5 m
- (c) 7 m
- (d) 9 m

Q16. The difference between the value of a number increased by 25% and the value of the original number decreased by 30% is 22. What is the original number?

- (a) 70
- (b) 65
- (c) 40
- (d) 90

Q17. If 12% of 75% of a number is greater than 5% of a number by 75, the number is

- (a) 1875
- (b) 1890
- (c) 1845
- (d) 1860



Q18. The salary of Raju and Ram is 20% and 30% less than the salary of Saroj respectively. By what % is the salary of Raju is more than the salary of Ram?

- (a) 33.33%
- (b) 50%
- (c) 15.18%
- (d) 14.28%

Q19. A fraction is such that if the double of the numerator and the triple of the denominator is changed by +10% and -30% respectively then we get 11% of 16/21. Find the fraction.

- (a) 4/25
- (b) 2/25
- (c) 3/25
- (d) None of these

Q20. In a class, 65% of the students are boys. On a particular day 80% of girl students were present. What was the fraction of boys who were present that day if the total number of students present that day was 70%?

- (a) 2/3
- (b) 28/65
- (c) 5/6
- (d) 42/65

Q21. Find the remainder in expression- $\frac{1234 \times 12345 \times 2378}{9}$

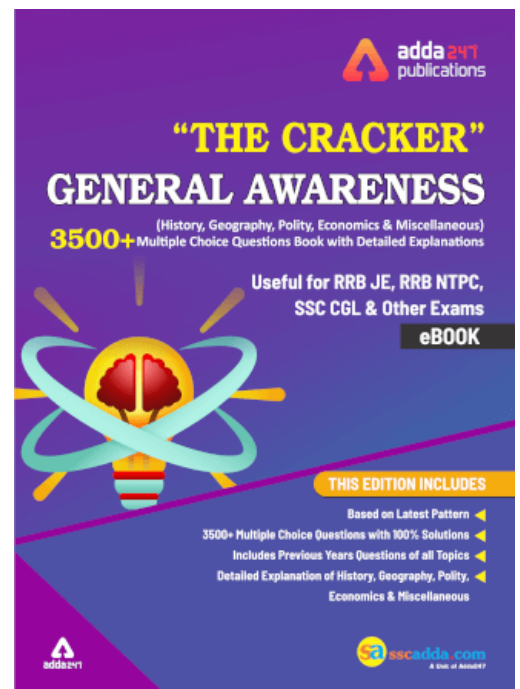
- (a) 3
- (b) 6
- (c) 4
- (d) 5

Q22. The taxi charges in a city contain fixed charges and additional charge/km. The charge for a distance of 10 km is Rs. 350 and for 25 km is 800. The charge for a distance for a distance of 30 km is:

- (a) Rs. 900
- (b) Rs. 950
- (c) Rs. 800
- (d) Rs. 750

Q23. The least number among $\frac{4}{9}$, $\sqrt{\frac{9}{49}}$, 0.24 and $(0.8)^2$ is

- (a) $\frac{4}{9}$
- (b) $\sqrt{\frac{9}{49}}$
- (c) 0.45
- (d) $(0.8)^2$



Q24. When a number is divided by 56, the remainder obtained is 29. What will be the remainder when the number is divided by 8?

- (a) 4
- (b) 5
- (c) 3
- (d) 7

Q25.

$(4^{61} + 4^{62} + 4^{63})$ is divisible by

- (a) 3
- (b) 11
- (c) 13
- (d) 17

Q26. A girl was asked to multiply a number by $\frac{7}{8}$, instead she divided the number by $\frac{7}{8}$ and got the result 15 more than the correct result. The sum of the digits of the number was:

- (a) 4
- (b) 8
- (c) 6
- (d) 11

Q27. Divide 37 into two parts so that so that 5 times one part and 11 times the other are together 227.

- (a) 15, 22
- (b) 20, 17
- (c) 25, 12
- (d) 30, 7

Q28. A man spends $\frac{1}{4}$ of his income on food, $\frac{2}{3}$ of it on house rent and the remaining which is Rs. 630 on other commodities. Find his house rent?

- (a) Rs. 5040
- (b) Rs. 3520
- (c) Rs. 4890
- (d) Rs. 4458

Q29.

The value of $\frac{1}{15} + \frac{1}{35} + \frac{1}{63} + \frac{1}{99} + \frac{1}{143}$ is

- (a) $\frac{5}{39}$
- (b) $\frac{4}{39}$
- (c) $\frac{2}{39}$
- (d) $\frac{7}{39}$

Q30. Each member of a picnic party contributed twice as many rupees as the total number of members and the total collection was Rs. 3042. The number of members present in the party was

- (a) 2
- (b) 32
- (c) 40
- (d) 39

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