

Quantitative Aptitude Sunday Mega Quiz for RRB NTPC

Q1. The ratio of Manish's salary to Amit's salary is 3 : 7 . The ratio of Payal's salary to Amit's salary is 2 : 5. If total income of all the three is 12000. Then the difference between the salary of Manish & Amit is ?

- (a) 3150
- (b) 3750
- (c) 3850
- (d) 3350

Q2. The sum of the present ages of Dharmendra and Amitabh is 65 years. Ten years ago their ages were in the ratio 7 : 2. What will be the ratio of their ages 12 years hence?

- (a) 59/37
- (b) 57/37
- (c) 56/37
- (d) 37/57

Q3. Out of 3750 villagers in a village, the ratio of number of adults and number of minors is 7 : 3 . Find the number of girl children, if the ratio of minor boys to minor girls is 10: 5?

- (a) 365
- (b) 315
- (c) 375
- (d) 345

Q4. A box contains 50p, 25p & 10p coins in the ratio 2 : 4 : 5 , amounting to 220 Rs. Find the total number of coins of 50p & 25p ?

- (a) 516
- (b) 517
- (c) 528
- (d) 520

Q5. If  $\frac{a}{5} = \frac{b}{9} = \frac{c}{11}$ , then  $\frac{a+b+c}{b+c}$  is equal to ?

- (a) 7/5
- (b) 5/4
- (c) 9/4
- (d) 10/9

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Q6. The number of male politician to the number of female politician in parliament is 7 : 8 . If percentage increase in the number of male politician and number of female politician be 20% and 10% respectively, what will be the new ratio?

- (a) 21/22
- (b) 23/22
- (c) 22/21
- (d) 25/21

Q7. Ratio of income of Amar and Akbar is 4:7. If income of Amar increases by 50% and those of Akbar decreases by 25%, the new income ratio incomes 8 : 7. What is the income of Amar ?

- (a) Rs. 21000
- (b) Rs 26000
- (c) Rs 23000
- (d) Data Inadequate

Q8. If Rs 565 is divided into three parts, proportional to  $\frac{1}{3} : \frac{3}{4} : \frac{4}{5}$ , then the second part is?

- (a) 215
- (b) 205
- (c) 225
- (d) 235

Q9. If A : B = 2 : 3, B : C = 4 : 5, C : D = 6 : 7. Find A : B : C : D.

- (a) 14 : 24 : 30 : 29
- (b) 15 : 24 : 30 : 31
- (c) 10 : 24 : 20 : 35
- (d) 16 : 24 : 30 : 35

Q10. In a mixture of two types of oils  $O_1$  &  $O_2$  the ratio  $O_1 : O_2$  is 3 : 2. If the cost of oil  $O_1$  is Rs. 4/L and that of oil  $O_2$  is Rs. 9/L. Then find the cost of Resulting mixture

- (a) Rs. 5
- (b) Rs. 6
- (c) Rs. 7
- (d) Rs. 9

Q11. A businessman allows a discount of 10% on the market price. What percent above the cost price must he mark his goods to make a profit of 17%?

- (a) 20%
- (b) 27%
- (c) 18%
- (d) 30%

Q12. A can do a piece of work in 4 days and B can do it in 12 days. In how many days will they finish the work, both working together?

- (a) 3 days
- (b) 4 days
- (c) 6 days
- (d) 2 days

Q13. A can do  $\frac{1}{4}$  of a work in 10 days. B can do  $\frac{1}{3}$  of the work in 20 days. In how many days can both A and B together do the work?

- (a) 25 days
- (b) 30 days
- (c) 32 days
- (d) 24 days

Q14. A circular wire of diameter 112 cm is cut and bent in the form of a rectangle whose side are in the ratio of 9 : 7. The small side of the rectangle is

- (a) 87 cm
- (b) 77 cm
- (c) 97 cm
- (d) 67 cm

Q15. The cost price of a table is Rs. 3,200. A merchant wants to make 25% profit by selling it. At the time of sale he declares a discount of 20% on the marked price. The marked price (in Rs.) is

- (a) Rs. 4,500
- (b) Rs. 5,000
- (c) Rs. 6,000
- (d) Rs. 4,000

Q16. A train travelling at a speed of 55 km/hr., travels from place X to place Y in 4 hours. If its speed is increased by 5 km/hr. then the time of journey is reduced by

- (a) 30 min
- (b) 25 min
- (c) 35 min
- (d) 20 min

Q17. In what time will Rs. 8,000, at 3% per annum, produce the same interest as Rs. 6,000 does in 5 years at 4% simple interest?

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

Q18. The value of  $\frac{(243)^{\frac{n}{3}} \times 3^{2n+1}}{9^n \times 3^{n-1}}$  is

- (a) 12
- (b) 3
- (c) 9
- (d) 6

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Q19. The average of 50 numbers is 38. If two numbers, namely 45 and 55 are discarded, the average of the remaining numbers is

- (a) 37.0
- (b) 37.5
- (c) 37.9
- (d) 36.5

Q20.

$$\text{If } x \sin^2 60^\circ - \frac{3}{2} \sec 60^\circ \tan^2 30^\circ + \frac{4}{5} \sin^2$$

$$45^\circ \tan^2 60^\circ = 0 \text{ then } x \text{ is}$$

- (a) -2
- (b)  $-\frac{1}{15}$
- (c) -4
- (d)  $-\frac{4}{15}$

Q21. Rs 730 were divided among A, B, C in such a way that if A gets Rs 3 then B gets Rs 4 and if B gets Rs 3.50 then C gets Rs 3. The share of B exceeds that of C by

- (a) Rs 30
- (b) Rs 40
- (c) Rs 70
- (d) Rs 210

Q22. The compound ratio of the inverse ratios of the ratios  $x : yz$ ,  $y : zx$ ,  $z : xy$  is:

- (a)  $1 : xyz$
- (b)  $xyz : 1$
- (c)  $1 : 1$
- (d)  $x : yz$

Q23. Rs. 2420 were divided among A, B, C, so that  $A : B = 5 : 4$  and  $B : C = 9 : 10$  then C gets

- (a) 680
- (b) 800
- (c) 900
- (d) 950

Q24. 49 kg of blended tea contain Assam and Darjeeling tea in the ratio 5 : 2 then the quantity of Darjeeling tea is to be added to the mixture to make the ratio of Assam to Darjeeling tea 2 : 1 is

- (a) 4.5 kg
- (b) 3.5 kg
- (c) 5 kg
- (d) 6 kg

Q25. Among 132 examinees of a certain school, the ratio of successful to unsuccessful students is 9 : 2, Had 4 more students passed, then the ratio of successful to unsuccessful students will be

- (a) 14 : 3
- (b) 14 : 5
- (c) 28 : 3
- (d) 28 : 5

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