

Quant Mega Quiz for SSC Tier - 1

Q1. Fund allocation to northeast region increased to Rs 58166 crore in the year 2021, which is 21% more than the previous year. What was the allocation in the year 2020 ?

- (a) 48071 Crore
- (b) 47011 Crore
- (c) 43011 Crore
- (d) None of these

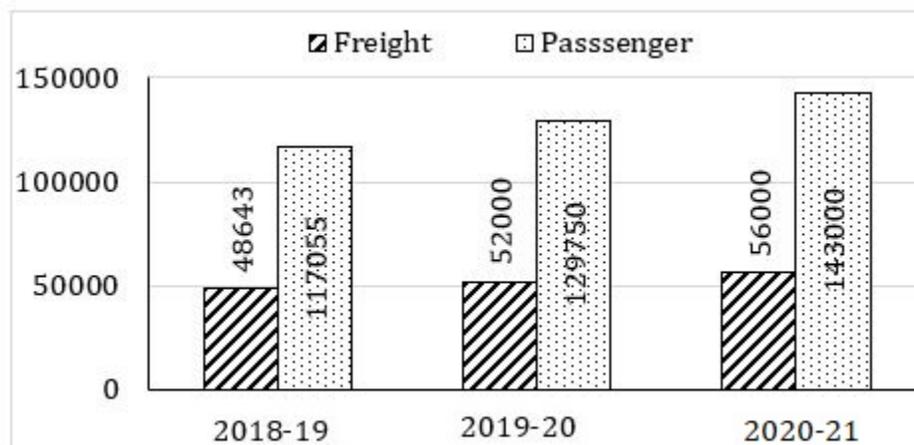
Q2. 25 percent of Sourcing for government projects will be from MSME, of which 3% will be from women entrepreneurs, if 10000 projects were to be sourced by the government then the number of government projects sourced from MSME which are owned by women entrepreneurs ?

- (a) 85
- (b) 75
- (c) 95
- (d) 65

Q3. For salaried persons, standard deduction for Income tax is being raised from current Rs 40000 to Rs 50000. By how much percent standard deduction is increased ?

- (a) 32%
- (b) 40%
- (c) 25%
- (d) 15%

Directions (4-8): Following Bar-graph shows the earnings of Railways from freight & passengers.



Q4. What is the increase in the Earnings from freight from 2018-19 to 2019-20 ?

- (a) 7.8%
- (b) 6.9%
- (c) 7.3%
- (d) None of these

Q5. What is the average of earnings from passengers for all the years :

- (a) 129939
- (b) 129935
- (c) 129926
- (d) None of these

Q6. Earnings from passengers in 2020-21 is what percentage of Earnings from freight in 2018 - 19 ?

- (a) 290.9%
- (b) 250.9%
- (c) 293.9%
- (d) 283.9%

Q7. Average Earnings from passenger of all the year together is by how much percent more than the average earnings from freight all the yeas taken together ?

- (a) 130%
- (b) 140%
- (c) 148%
- (d) None of these

Q8. What is the percentage increase in the earnings from passenger in year 2019-20 from previous year ?

- (a) 10%
- (b) 20%
- (c) 30%
- (d) 40%

Q9. Non-tax revenue collection in 2020-21 is budgeted at Rs. 272647 Crore as compared to Rs. 245276 Crore is 2019-20 , This shows an increase of how much percentage ?

- (a) 12.50%
- (b) 11.15%
- (c) 12.95%
- (d) 13.15%



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Q10. 80% Increase in the tax base of Rs. 3.79 Crore is recorded in the five years. Find the Ratio of new tax base to old tax base ?

- (a) 379 : 682
- (b) 379 : 647
- (c) 379 : 657
- (d) None of these

Q11. Out of Rs. 50000, that a man has, he lends Rs. 8000 at 11/2% per annum simple interest and Rs. 24000 at 6% per annum simple interest. He lends the remaining money at a certain rate of interest so that he gets total annual interest of Rs. 3680. The rate of interest per annum, at which the remaining money is lent, is

- (a) 5%
- (b) 7%
- (c) 10%
- (d) 12%

Q12. Ravi alone would take 32 hours more to complete a job than both Ravi and Rajesh together. If Rajesh worked alone, he took 12½ hours more to complete it than both Ravi and Rajesh worked together. What time would they take if both Ravi and Rajesh worked together?

- (a) 19 hours
- (b) 6½ hours
- (c) 20 hours
- (d) 7½ hours



Q13. Two pipes X and Y can fill an empty tank in 16 and 24 hours respectively. Ravi opens these two pipes simultaneously. After 8/3 hours he comes back and sees that there was a leak in the tank. He stops the leakage and thus tank took 48/5 hours to be filled completely after closing the leak. In what time leakage will empty the filled tank?

- (a) 6.9 hrs
- (b) 9.6 hrs
- (c) 12.4 hrs
- (d) 8.4 hrs

Q14. A sum is divided between A and B in the ratio of 1 : 2. A purchased a car from his part, which depreciates $14\frac{2}{7}\%$ per annum and B deposited his amount in a bank, which pays him 20% interest per annum compounded annually. By what percentage will the total sum of money increase after two years due to this investment pattern (approximately)?

- (a) 20%
- (b) 26.66%
- (c) 30%
- (d) 25%

Q15. An electronics company sold 12 desktops at a profit of 20% and 8 desktops at a profit of 10%. If it had sold all the 20 desktops at a profit of 15%, then its profit would have been reduced by Rs. 36000. What is the cost price of each desktop?

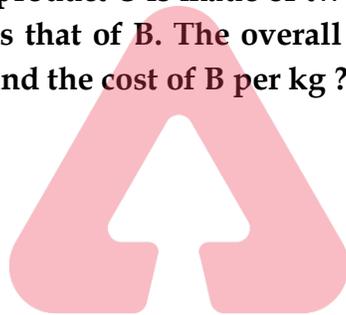
- (a) 1,85,000
- (b) 1,82,000
- (c) 1,80,000
- (d) 1,90,000

Q16. Four examiners can examine a certain number of answer papers in 10 days by working for 5 hours a day. For how many hours in a day would 2 examiners have to work in order to examine twice the number of answer papers in 20 days?

- (a) 10 hours
- (b) $10\frac{1}{2}$ hours
- (c) 8 hours
- (d) 9 hours

Q17. A certain product C is made of two ingredients A and B in the proportion of 2 : 5. The price of A is three times that of B. The overall cost of C is Rs. 5.20 per kg including labour charges of 80 paise per kg. Find the cost of B per kg ?

- (a) Rs. 8.40
- (b) Rs. 4.20
- (c) Rs. 4.80
- (d) Rs. 2.80



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Q18. Parameshwaran invested an amount of Rs 12000 at the simple interest rate of 10 per cent annum and another amount at the simple interest rate of 20 per cent per annum. The total interest earned at the end of one year on the total amount invested became 14 per cent per annum. Find the total amount invested.

- (a) Rs 22000
- (b) Rs 25000
- (c) Rs 20000
- (d) Rs 24000

Q19. Two numbers are in the ratio P : Q. When 1 is added to both the numerator and the denominator, the ratio gets changed to R/S. Again, when 1 is added to both the numerator and the denominator, it becomes 1/2. Find the sum of P and Q.

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

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Q20. Megha weighs twice as much as Shweta. Shweta's weight is 60% of Deepika's weight. Rakesh weighs 50% of Vikas's weight. Vikas weighs 190% of Megha's weight. Which of these people weighs the least ?

- (a) Megha
- (b) Deepika
- (c) Shweta
- (d) Rakesh

Q21. A boat is moving away from an observation tower. It makes an angle of depression of 60° with an observer's eye when at a distance of 50m from the tower. After 8 sec, the angle of depression becomes 30° . By assuming that it is running in still water, the approximate speed of the boat is

- (a) 33 Km/hr
- (b) 42 Km/hr
- (c) 45 Km/hr
- (d) 50 Km/hr

Q22. Ratio of the number of sides of two regular polygons is 5:6 and the ratio of their each interior angle is 24 : 25. The number of sides of these two polygons are

- (a) 10, 12
- (b) 20, 24
- (c) 15, 18
- (d) 35, 42

Q23. I is the incentre of a triangle ABC. If $\angle ACB = 55^\circ$, $\angle ABC = 65^\circ$ then the value of $\angle BIC$ is

- (a) 130°
- (b) 120°
- (c) 140°
- (d) 110°

Q24. AB and CD are two parallel chords of a circle lying on the opposite side of the center and the distance between them is 17 cm. The length of AB and CD are 10 cm and 24 cm respectively. The radius (in cm) of the circle is

- (a) 13
- (b) 18
- (c) 9
- (d) 15

Q25. A cricketer has a mean score of 60 runs in 10 innings. Find out how many runs are to be scored in the eleventh innings to raise the mean score to 62?

- (a) 83
- (b) 82
- (c) 80
- (d) 81

Q26. If there is a reduction in the number of workers in a factory in the ratio 15 : 11 and an increment in their wages in the ratio 22 : 25, then the ratio by which the total wage of the workers should be decreased is

- (a) 6 : 5
- (b) 5 : 6
- (c) 3 : 7
- (d) 3 : 5

Q27. If a man receives on one-fourth of his capital 3% interest, on two third 5% and on the remaining 11%, the percentage he receives on the whole is:

- (a) 4.5%
- (b) 5%
- (c) 5.5%
- (d) 5.2%

Q28. A sum of money placed at compound interest double itself in 4 years. In how many years will it amount to four times itself?

- (a) 12 year
- (b) 13 year
- (c) 8 year
- (d) 16 year

Q29. x does $\frac{1}{4}$ of a job in 6 days y completes rest of the job in 12 days. Then x and y could complete the job together in

- (a) 9 days
- (b) $8\frac{1}{8}$ days
- (c) $9\frac{3}{5}$ days
- (d) $7\frac{1}{3}$ days

Q30. 2 men and 3 boys can do a piece of work in 10 days while 3 men and 2 boys can do the same work in 8 days. In how many days can 2 men and 1 boy do the work?

- (a) 8 days
- (b) 7 days
- (c) $12\frac{1}{2}$ days
- (d) 2 days



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