

Quant Mega Quiz for SSC CGL Tier - 2

Q1. In a solution of water and sugar, the ratio of sugar to water is 3 : 5. If 30% of this solution is taken out and 5% of the initial quantity of solution is added as water to the remaining quantity of the mixture then find the new ratio of sugar and water in the solution.

- (a) 6 : 13
- (b) 3 : 7
- (c) 7 : 13
- (d) 4 : 7

Q2. A and B invest in the ratio of 3 : 5. After 6 months, C joins the business by investing some amount. At the end of the year, the profit share of B and C are equal. Find initial investment of A is what percent of the initial investment of C.

- (a) 24%
- (b) 36%
- (c) 60%
- (d) 30%

Q3. The ratio of speed of boat in still water to the speed of stream is 5 : 3. A boat takes total 12 hours to go 48 km in upstream and same distance in downstream. Find the speed of boat in still water.

- (a) 5 km/h
- (b) $7\frac{1}{2}$ km/h
- (c) 10 km/h
- (d) $12\frac{1}{2}$ km/h

Q4. The simple interest received on a sum of Rs.12,600 at the rate of 8% in T years is Rs. 5040. Find the CI received on the same sum in (T-3) years at the rate of $16\frac{2}{3}\%$ p.a. compounded annually.

- (a) Rs. 4550
- (b) Rs. 4650
- (c) Rs. 4450
- (d) Rs. 4750



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Q5. A shopkeeper marked up his article 45% above the CP and allows a two successive discount of 15% and 12% on it. He realized that he made a profit of Rs126.9. Find the SP when he wants to earn 15% profit.

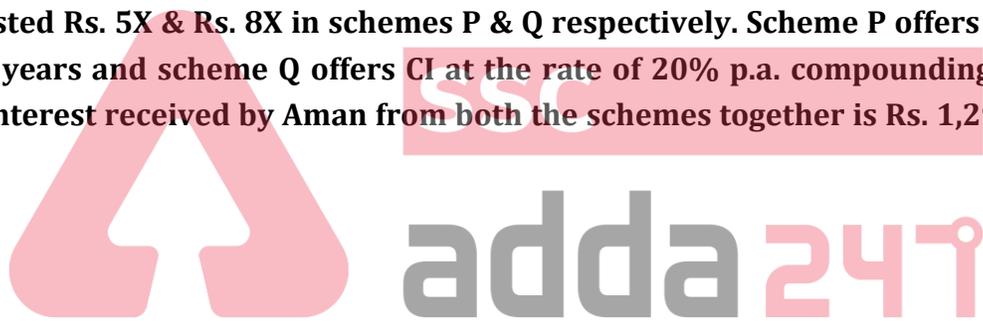
- (a) Rs. 1695
- (b) Rs. 1750
- (c) Rs. 1675
- (d) Rs. 1725

Q6. A and B together decided to dig a well in 7.5 days while working 4 hours in a day. But due to tiredness their efficiency decreases by 50% in every hour in a day and they started every day with full energy. Now find in how many days well will be dig?

- (a) 15 days
- (b) 16 days
- (c) 20 days
- (d) 21 days

Q7. Aman invested Rs. 5X & Rs. 8X in schemes P & Q respectively. Scheme P offers SI at the rate of 25% p.a. for 4 years and scheme Q offers CI at the rate of 20% p.a. compounding annually for 3 years. If total interest received by Aman from both the schemes together is Rs. 1,29,888, then find X.

- (a) 10,000
- (b) 15,000
- (c) 14,000
- (d) 12,000



Q8. A alone can complete a work in 20 days while B alone can complete same work in 24 days. C is 20% less efficient than B. If all three starts working together on the same work, then find in how many days the work will be completed?

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

Q9. Adarsh is 5 years older than Prashant and 5 years ago, the ratio of ages of Prashant to that of Himanshu was 4:3. If Adarsh's present age is 50% more than present age of Himanshu, then find average of present ages of Prashant, Himanshu and Adarsh.

- (a) 19 years
- (b) 24 years
- (c) 27 years
- (d) 25 years

Q10. A shopkeeper marked an article 40% above its cost price. He comes up with a scheme that on purchase of every 8 articles at marked price he will give 2 articles free. If Shivam purchased 8 articles from him at marked price, then find profit/loss % of shopkeeper in this transaction.

- (a) None of the below.
- (b) 12% profit
- (c) 12% loss
- (d) 15% profit

Q11. A car left 3 minutes early than the scheduled time and in order to reach the destination 126 km away in time, it has to slow its speed by 6 km/h from the usual. What is the usual speed (in km/hr) of the car?

- (a) 56
- (b) 63
- (c) 94.5
- (d) 126

Q12. If a certain sum becomes 3 times in 6 years at compound interest, then in how many years, it will become 81 times?

- (a) 81
- (b) 162
- (c) 27
- (d) 24

Q13. The cost price of 40 articles is the same as the selling price of 25 articles. Find the gain per cent.

- (a) 65%
- (b) 60%
- (c) 15%
- (d) 75%

Q14. A sells an article to B making a profit of $\frac{1}{5}$ of his outlay. B sells it to C, gaining 20%. If C sells it for Rs. 600 and incurs a loss of $\frac{1}{6}$ of his outlay, the cost price of A is

- (a) Rs. 600
- (b) Rs. 500
- (c) Rs. 720
- (d) Rs. 800

Q15. A man has a certain amount with him. He spent 20% of that to buy an article and 5% of the remaining on transport. Then he gifted Rs. 120. If he is left with Rs. 1,400, the amount he spent on transport is

- (a) Rs. 76
- (b) Rs. 61
- (c) Rs. 95
- (d) Rs. 80



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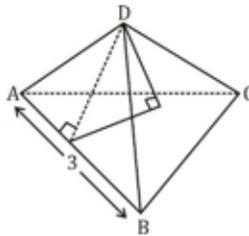
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Q16. A conical vessel of radius 6 cm and height 8 cm is completely filled with water. A sphere is lowered into the water and its size is such that when it touches the sides, it is just immersed. The fraction of water that overflows is:

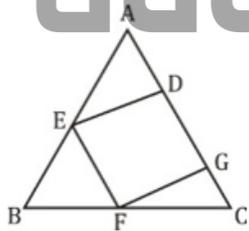
- (a) 1 : 4
- (b) 1 : 2
- (c) 3 : 8
- (d) 5 : 8

Q17. In pyramid ABCD, edge AB has length 3 cm. The area of face ABC is 15 cm^2 and the area of face ABD is 12 cm^2 . These two faces meet each other at 30° angle. Find volume of the pyramid in cm^3 .



- (a) $\frac{20}{\sqrt{3}}$
- (b) 20
- (c) 60
- (d) 10

Q18. In equilateral ΔABC , find the length of altitude (in cm) put from D to BC. If, DEFG is a square & side $AB = 2 + \sqrt{3} \text{ cm}$



- (a) $3 + \sqrt{3}$
- (b) $(3 + \sqrt{3})/2$
- (c) $1.5 + \sqrt{3}$
- (d) $3 - \sqrt{3}$

Q19. A, B & C participated in a gamble and lost 7%, 8% & 9% of total amount available in their wallets. A and B are having equal amount and B lost Rs 56 more than A. If 63% of the amount lost by A and B together is equal to the amount lost by C alone, then what is the effective percentage of amount lost by A, B & C together?

- (a) 7.5%
- (b) 7.86%
- (c) 8.86%
- (d) 8.01%

Q20. A man borrowed Rs 40000 at 8% simple interest per year. At the end of second year, he paid back certain amount and treating the remaining amount including interest as the principal, at the end of fifth year, he paid back Rs 35960 and cleared the debt. What is the amount did he pay back after the second year?

- (a) Rs 16200
- (b) Rs 17400
- (c) Rs 18600
- (d) None of these



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Q21. A person has some amount with him. 25% of it is stolen in a bus, 10% is lost through a hole in the pocket, 50% of remainder is spent on food. He then purchases a book worth Rs. 26 from the remainder. He walks back home because all his money is over. What was the initial amount?

- (a) Rs. 160
- (b) Rs. 1,230
- (c) Rs. 90
- (d) Rs. 80

Q22. A businessman's earning increases by 25% in one year but decreases by 4% in the next. After 5 years his total earnings would be Rs. 72,000. What is the present earning?

- (a) Rs. 10,000
- (b) Rs. 80,000
- (c) Rs. 40,000
- (d) Rs. 54,000

Q23. A shopkeeper has certain number of eggs of which 5% are found to be broken. He sells 93% of the remainder and still has 266 eggs left. How many eggs did he originally have?

- (a) 3800
- (b) 4000
- (c) 4200
- (d) None of these

Q24. In a group of 20 singers and 40 dancers, 20% of the singers are less than 25 years old and 40% of the entire group are under 25 years. What percentage of dancers are under 25 years?

- (a) 20%
- (b) 40%
- (c) 50%
- (d) 60%

Q25. A invested 125% as much money as B. C invested 80% as much money as B. The total of all the three is 61,000. How much did C invest?

- (a) 25000
- (b) 16000
- (c) 20000
- (d) 45000

Q26. In a company, there are 75% skilled workers and remaining ones are unskilled. 80% of skilled workers and 20% of unskilled workers are permanent. If number of temporary workers is 126, then what is the number of total workers?

- (a) 480
- (b) 510
- (c) 360
- (d) 377

Q27. There are four friends. The average score in unit test of the first three is 15 and that of the last three is 16. If the score of the last friend is 19, then first friend's score is what percent of average of the last three?

- (a) $66\frac{2}{3}\%$
- (b) 300%
- (c) 100%
- (d) None of these

Q28. When the price of an audio system was reduced by 20%, the sale increased by 80%. What was the net effect on the sale?

- (a) 44% increase
- (b) 44% decrease
- (c) 66% increase
- (d) 60% increase

Q29. If two numbers are respectively 20% and 50% of a third number, what is the percentage of the first number to the second?

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

Q30. If the compound interest on a certain sum for 2 years at 4% p.a. is Rs. 102, the simple interest at the same rate of interest for two years would be:

- (a) Rs. 200
- (b) Rs. 50
- (c) Rs. 150
- (d) Rs. 100

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