

Quant Mega Quiz for SSC CGL Tier - 2

Q1. If x runs are scored by A, y runs by B and z runs by C, then $x : y = y : z = 3 : 2$. If total number of runs scored by A, B and C is 342, the runs scored by each would be respectively

- (a) 144, 96, 64
- (b) 162, 108, 72
- (c) 180, 120, 80
- (d) 189, 126, 84

Q2. Rs 900 is divided among A, B, C; the division is such that $\frac{1}{2}$ of A's money = $\frac{1}{3}$ rd of B's money = $\frac{1}{4}$ th of C's money. Find the amount (in Rs) received by A, B, C.

- (a) 300, 400, 200
- (b) 350, 450, 100
- (c) 200, 300, 400
- (d) 400, 150, 350

Q3. If Rs 126.50 is divided among A, B and C in the ratio of 2 : 5 : 4, the share of B exceeds that of A by

- (a) Rs 36.50
- (b) Rs 35.50
- (c) Rs 34.50
- (d) Rs 33.50

Q4. The average of first three numbers is double of the fourth number. If the average of all the four numbers is 12, find the 4th number.

- (a) 16
- (b) $\frac{48}{7}$
- (c) 20
- (d) $\frac{18}{7}$

Q5. If the average of 6 consecutive even numbers is 25, the difference between the largest and the smallest number is

- (a) 8
- (b) 10
- (c) 12
- (d) 14



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Q6. A train goes from Ballygunge to Sealdah at an average speed of 20 km/hour and comes back at an average speed of 30 km/hour. The average speed of the train for the whole journey is

- (a) 27 km/hr
- (b) 26 km/hr
- (c) 25 km/hr
- (d) 24 km/hr

Q7. The arithmetic mean of 100 observations is 24.6 is added to each of the observations and, then each of them is multiplied by 2.5. Find the new arithmetic mean.

- (a) 30
- (b) 75
- (c) 35
- (d) 60

Q8. Sachin Tendulkar has a certain average for 11 innings. In the 12th innings he scores 120 runs and thereby increases his average by 5 runs. His new average is

- (a) 60
- (b) 62
- (c) 65
- (d) 66

Q9. The average of 11 results is 50. If the average of the first six results is 49 and that of the last six is 52, the sixth result is

- (a) 48
- (b) 50
- (c) 52
- (d) 56

Q10. By selling 25 metres of cloth a trader gains the selling price of 5 metres of cloth. The gain of the trader in % is

- (a) 25
- (b) 20
- (c) 28
- (d) 29

Q11. A naughty student breaks the pencil in such a way that the ratio of two broken parts is same as that of the original length of the pencil to one of the large part of the pencil. The ratio of the other part to the original length of pencil is:

- (a) $1 : 2\sqrt{5}$
- (b) $2 : (3 + \sqrt{5})$
- (c) $2 : \sqrt{5}$
- (d) Can not be determined



Q12. The ratio of prices of Cello and Rotomac pens in 2000 were in the ratio of 3 : 5. In 2005 the price of Cello pen trebles itself and the price of Rotomac pen is increased by Rs. 100, then the new ratio of prices of the same pens becomes 4 : 5. What was the original price of the Rotomac pen in 2000?

- (a) Rs. 60
- (b) Rs. 80
- (c) Rs. 100
- (d) Rs. 120

Q13. Sachin bought 1.5 kg fresh grapes. The ratio of water is to pulp was 4:1. When his naughty child crushed these grapes, then some water get wasted. Now the ratio of water is to pulp is 3 : 2. What is the total amount of the crushed grapes?

- (a) 0.5 kg
- (b) 1 kg
- (c) 0.75 kg
- (d) None of these

Q14. A container is filled with the mixture of milk and water. The ratio of milk and water is same. Bobby and Sunny increases the concentration to 60%. Bobby makes it by adding the milk and Sunny makes it by replacing the mixture with milk. What is the percentage of milk added by Bobby to that of milk replaced by Sunny:

- (a) 100%
- (b) 120%
- (c) 133.33%
- (d) None of these

Q15. Akbar and Birbal who purchased the shares for the cost of their basic salaries which are in the ratio of 5 : 6. Later on company gave them 40 additional shares to each, due to which the ratio changed to 7 : 8. If the worth of each share is Rs. 75, what is the basic salary of the person who got less shares?

- (a) Rs. 10500
- (b) Rs. 7500
- (c) Rs. 8800
- (d) Rs. 9000

Q16. My salary is Rs. 12,345 per month. The salary of my brother is 10% greater than that of mine. The salary of my only sister is 9.09% greater than my only brother. The salary of my wife is $56\frac{12}{13}\%$ less than the total salary of my brother and sister together, then the salary of my wife is:

- (a) greater than my sister's salary
- (b) $33\frac{11}{23}\%$ less than my sister's salary
- (c) equal to my salary
- (d) $44\frac{11}{23}\%$ greater than my own salary

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Q17. A train travelled 75% of the way from town X to town Y by travelling for A hrs at an average speed of B km/hr. The train travels at an average speed of S km/hr for the remaining part of the journey. Which of the following expression represents the average speed of the entire journey?

- (a) $0.75B + 0.25$
- (b) $(4BS)/(3S + B)$
- (c) $AB/3S$
- (d) $0.75A + 0.25S$

Q18. A travel agency has three types of vehicles viz. four seater, autorickshaw, 10 seater maxi cab and 20 seater minibus. The rate of each passenger (irrespective of its age or weight or seniority) for the auto rickshaw is Rs. 12 and for the maxi cab is Rs. 15 and for the minibus is Rs. 8 for the one round. The average occupancy of the seats is 100%, 80% and 75% respectively. If he has only one vehicle of each kind, then the average earning for one round of each vehicle is:

- (a) Rs. 96
- (b) Rs. 90
- (c) Rs. 86
- (d) Rs. 70

Q19. The average age of 100 nurses in a nursing home in 1982 was 50 years. In 1984, 20 nurses retired from their job, whose average age was 60 years. After a huge gap in 1987, 40 nurses were employed whose average age was 38 years. The average age of all the nurses in 1990 was:

- (a) 53 years
- (b) 51 years
- (c) 48.5 years
- (d) Data insufficient

Q20. The height of a right circular cone and the radius of its circular base are respectively 9 cm and 3 cm. The cone is cut by a plane parallel to its base so as to divide it into two parts. The volume of the frustum (i.e., the lower part) of the cone is 44 cubic cm. The radius of the upper circular surface of the frustum (take $\pi = 22/7$) is:

- (a) $\sqrt[3]{12}$ cm
- (b) $\sqrt[3]{13}$ cm
- (c) $\sqrt[2]{13}$ cm
- (d) $\sqrt[3]{20}$ cm

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 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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