

Quant Mega Quiz for SSC CHSL

Q1. A money lender claims to lend money at the rate of 10% per annum simple interest. However, he takes the interest in advance when he lends a sum for one year. At what interest rate does he lend the money actually?

- (a) 10%
- (b) $10\frac{1}{9}\%$
- (c) 11%
- (d) $11\frac{1}{9}\%$

Q2. A certain sum doubles in 7 years at simple interest. The same sum under the same interest rate will become 4 times in how many years.

- (a) 14
- (b) 28
- (c) 21
- (d) 10

Q3. On a certain sum the simple interest for $12\frac{1}{2}$ year is $\frac{3}{4}$ of the sum. Then the rate of interest is:

- (a) 5% per year
- (b) 6% per year
- (c) 7% per year
- (d) 8% per year

Q4. A man borrows some amount at the rate of 12% per annum at simple interest. After 6 years 8 months, he paid Rs. 720 as an interest. Find the amount borrowed by him.

- (a) Rs. 900
- (b) Rs. 960
- (c) Rs. 920
- (d) Rs. 1620

Q5. The discount on a certain sum of money, due at the end of $2\frac{1}{4}$ years at $2\frac{2}{3}\%$ p.a. is Rs. 78. Find the sum.

- (a) Rs. 1,278
- (b) Rs. 1,300
- (c) Rs. 1,378
- (d) Rs. 1,400

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Q6. If the simple interest on Rs. 1 for 1 month is 1 paisa, then the rate percent per annum will be:

- (a) 10%
- (b) 8%
- (c) 12%
- (d) 6%

Q7. A money lender lends Rs. 400 for 3 years to a person and lends Rs. 500 for 4 years to the other person at the same rate of simple interest. If altogether he receives Rs. 160 as interest, what is the rate of interest per annum

- (a) 5%
- (b) 7%
- (c) 9%
- (d) 10%

Q8. The simple interest on a certain sum of money at the rate of 5% per annum for 8 years is Rs. 840. Rate of interest for which the same amount of interest can be received on the same sum after 5 years is

- (a) 7%
- (b) 8%
- (c) 9%
- (d) 10%

Q9. If a sum of money doubles itself in 8 years, then the interest rate in percentage is?

- (a) $8\frac{1}{2}\%$
- (b) 10%
- (c) $10\frac{1}{2}\%$
- (d) $12\frac{1}{2}\%$

Q10. Aipta got some amount of money from her father. In how many years will the ratio of the money and the interest obtained from it be 10:3 at 6% simple interest per annum?

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

Q11. Two pipes A and B can separately fill a tank in 2 hours and 3 hours respectively. If both the pipes are opened simultaneously in the empty tank, then the tank will be filled in

- (a) 1 hour 12 minutes
- (b) 2 hours 30 minutes
- (c) 1 hour 15 minutes
- (d) 1 hour 20 minutes

Q12. A tap drips at a rate of one drop/sec. 600 drops make 100 ml. The number of litres wasted in 300 days is:

- (a) 4320000 litres
- (b) 432000 litres
- (c) 43200 litres
- (d) 4320 litres

Q13. Having the same capacity 9 taps fill up a water tank in 20 minutes. How many taps of the same capacity are required to fill up the same water tank in 15 minutes?

- (a) 10
- (b) 12
- (c) 15
- (d) 18

Q14. A cistern is provided with two pipes A and B. A can fill it in 20 minutes and B can empty it in 30 minutes. If A and B be kept open alternatively for one minute each, how soon will the cistern be filled.?

- (a) 121 minutes
- (b) 110 minutes
- (c) 115 minutes
- (d) 120 minutes

Q15. Two pipes A and B can fill a tank with water in 30 minutes and 45 minutes respectively. The third pipe C can empty the tank in 36 minutes. First A and B are opened. After 12 minutes C is opened. Total time (in minutes) in which the tank will be filled up is:

- (a) 12 min
- (b) 24 min
- (c) 30 min
- (d) 36 min

Q16. A Pipe can fill a tank in x hours and another can empty it in y hours. In how many hours they together fill it in ($y > x$):

- (a) $(x - y)$ hrs
- (b) $(y - x)$ hrs
- (c) $xy/(x - y)$ hrs
- (d) $xy/(y - x)$ hrs

Q17. Pipe A can fill a tank in 4 hours and pipe B can fill it in 6 hours. If they are opened on alternate hours and if pipe A is opened first then in how many hours, the tank shall be full?

- (a) $4\frac{1}{2}$ hrs
- (b) $4\frac{2}{3}$ hrs
- (c) $3\frac{1}{2}$ hrs
- (d) $3\frac{1}{4}$ hrs

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Q18. Pipe A can fill an empty tank in 6 hours and pipe B in 8 hours. If both the pipes are opened and after 2 hours pipe A is closed, how much time B will take to fill the remaining tank?

- (a) $7\frac{1}{2}$ hours
- (b) $2\frac{2}{5}$ hours
- (c) $1\frac{2}{5}$ hours
- (d) $3\frac{1}{3}$ hours

Q19. A tank has two pipes. The first pipe can fill it in 4 hours and the second can empty it in 16 hours. If two pipes be opened together at a time, then the tank will be filled in

- (a) $5\frac{1}{2}$ hours
- (b) 6 hours
- (c) 10 hours
- (d) $5\frac{1}{3}$ hours

Q20. A pipe can fill a tank in 24 hours. Due to a leakage in the bottom, it is filled in 36 hours. If the tank is half full, how much time will leakage take to empty the tank?

- (a) 24 hrs
- (b) 48 hrs
- (c) 36 hrs
- (d) 72 hrs

Q21. An aeroplane at an altitude of 1200 metres finds that two ships are sailing towards it in the same direction. The angles of depression of the ships as observed from the aeroplane are 60° and 30° respectively. Find the distance between the two ships.

- (a) $900\sqrt{3} m$
- (b) $800\sqrt{3} m$
- (c) $600\sqrt{3} m$
- (d) $700\sqrt{3} m$

Q22. A man on the top of a vertical tower observes a car moving at a uniform speed coming directly towards it. If it takes 12 minutes for the angle of depression to change from 30° to 45° , how soon after this, will the car reach the tower?

- (a) $6(\sqrt{3} + 1)$ minutes
- (b) $4(\sqrt{3} + 1)$ minutes
- (c) $3(\sqrt{3} + 1)$ minutes
- (d) $5(\sqrt{3} + 1)$ minutes



The advertisement features a circular portrait of Neetu Singh, a woman with dark hair wearing a pink and white patterned top. To the right of the portrait, the text reads 'BILINGUAL' in a small orange box, 'LIVE' in a small white box, and 'ENGLISH BY NEETU SINGH' in large white letters. Below this, it says '12th May' in white. At the bottom, there are two orange boxes containing the text 'Tue, Thr, Sat' and '5 pm - 7 pm'.

Q23. The shadow of a flag-staff is three times as long as the shadow of the flag-staff when the sun rays meet the ground at an angle of 60° . Find the angle between the sun rays and the ground at the time of longer shadow.

- (a) 45°
- (b) 90°
- (c) 60°
- (d) 30°

Q24. The angle of elevation of the top Q of a vertical tower PQ from a point X on the ground is 60° . At a point Y, 40 m vertically above X, the angle of elevation is 45° . Find the height of the tower PQ.

- (a) $20(\sqrt{3} + 3)$
- (b) $10(\sqrt{3} + 3)$
- (c) $30(\sqrt{3} + 3)$
- (d) $40(\sqrt{3} + 3)$

Q25.

If $\operatorname{cosec} A = \sqrt{2}$, find the value of $\frac{2 \sin^2 A + 3 \cot^2 A}{4 \tan^2 A - \cos^2 A}$

- (a) $3/7$
- (b) $5/7$
- (c) $6/7$
- (d) $8/7$

Q26.

If $\sec \theta = x + \frac{1}{4x}$ then find $\sec \theta + \tan \theta = ?$

- (a) $2x$ or $\frac{1}{2x}$
- (b) $3x$ or $\frac{1}{3x}$
- (c) $4x$ or $\frac{1}{4x}$
- (d) $5x$ or $\frac{1}{5x}$

Q27. The mean of 11 numbers is 35. If the mean of first 6 numbers is 32 and that of the last six numbers is 37, find the sixth number.

- (a) 28
- (b) 29
- (c) 30
- (d) 27

Q28. The average of 5 consecutive integers starting with 'm' is n. What is the average of 6 consecutive integers starting with (m + 2)?

- (a) $\frac{2n+5}{2}$
- (b) (n + 2)
- (c) (n + 3)
- (d) $\frac{2n+9}{2}$

Q29. Eight consecutive numbers are given. If the average of the two numbers that appear in the middle is 6, then the sum of the eight given numbers is:

- (a) 54
- (b) 64
- (c) 36
- (d) 48

Q30. The average of four consecutive even numbers is 15. The 2nd highest number is:

- (a) 12
- (b) 14
- (c) 18
- (d) 16

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