

## Quant Mega Quiz for SSC CGL Tier - 2

Q1. Satish invested 16000 Rs. in simple interest for 2 years on certain rate and gets an interest of 4800 Rs, if he invested total amount (Principle + Interest) in a scheme, which offered compound interest of 5% more interest rate as earlier rate. Then find total interest obtained by Satish after 2 years?

- (a) 9252 Rs.
- (b) 9225 Rs.
- (c) 9512 Rs.
- (d) 9152 Rs.

Q2. The sum of the ages of father and son is 50 years. Eight years ago, the product of their ages was two time the father's age at that time, then the present ages (in years) of the father and son respectively are

- (a) 39,6
- (b) 35,10
- (c) 36,9
- (d) 40,10

Q3. A vessel contains 60 lit of pure honey. If  $m$  lit of pure honey is replaced with  $n$  lit of water then ratio of honey to water becomes 10: 1 and if  $2m$  lit of pure honey were replaced by  $n$  lit of water, then ratio of honey to water becomes 8: 1. Find the value of ' $m + n$ '?

- (a) 10
- (b) 12
- (c) 15
- (d) 30

Q4. The price of a car is Rs. 3,25,000. It was insured to 85% of its price. The car was damaged completely in an accident and the insurance company paid 90% of the insurance. What was the difference between the price of the car and the amount received?

- (a) Rs. 32,500
- (b) Rs. 48,750
- (c) Rs. 76,375
- (d) Rs. 81,250

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Q5. Nitin borrowed some money at the rate of 6% p.a. for the first three years, 9% p.a. for the next five years and 13% p.a. for the period beyond eight years. If the total interest paid by him at the end of eleven years is Rs. 8160, how much money did he borrow?

- (a) Rs. 8000
- (b) Rs. 10,000
- (c) Rs. 12,000
- (d) Rs. 10,500

Q6. Out of the total number of students in a college 12% are interested in sports only.  $\frac{3}{4}$  of the remaining number of students are interested in dancing only. 10% of the total number of students are interested in singing only and the remaining 15 students are not interested in any of the activities. What is the total number of students in the college?

- (a) 115
- (b) 120
- (c) 125
- (d) 150

Q7. Annually income of Sameer is 8.4 lakh Rs. he spend  $14\frac{2}{7}\%$  on Rent,  $16\frac{2}{3}\%$  of remaining on Food and  $\frac{11}{20}$  of remaining spend on Cloth and travel together monthly. then find the difference between total saving and amount spend on travel annually, if given ratio between amount spend on Cloth to travel is 17 : 8 ?

- (a) 164400 Rs.
- (b) 165400 Rs.
- (c) 160400 Rs.
- (d) 175400 Rs.

Q8. A , B and C invested different amounts in a business for 4 months, 6 months and 12 months respectively. B's investment was 2 times A's investment and C's investment was 2.5 times A's investment. If at the end of the year, they together received an amount of Rs 5,819/- as total profit, what was B's share in the total profit.

- (a) Rs 1,404/-
- (b) Rs 1,428/-
- (c) Rs 1,518/-
- (d) Rs 1,536/-

Q9. A tank is fitted with 8 pipes, some of which that fill the tank and others that empty the tank. Each of the pipes that fills the tank fills it in 8 hours, while each of those that empty the tank empties it in 6 hours. If all the pipes are kept open when the tank is full, it will take 6 hours to drain the tank. How many of these are filling pipes?

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

Q10. The barrel of a fountain pen is cylindrical in shape whose radius of base is 0.7 cm and is 5 cm long. One such barrel in the pen can be used to write 300 words. A barrel full of ink which has a capacity of 15.4 cubic cm can be used to write how many words?

- (a) 540 words
- (b) 430 words
- (c) 600 words
- (d) 590 words

Q11.

Find the remainder when

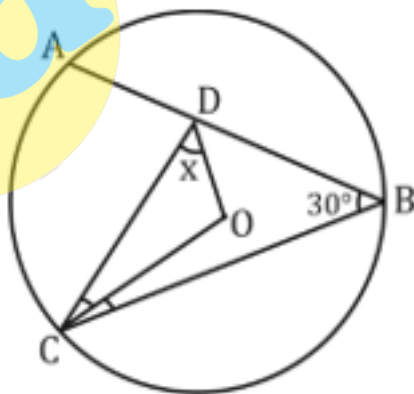
$55^{23} + 22^{55}$  is divided by 7?

- (a) 5
- (b) 6
- (c) 1
- (d) 0

Q12. Radhika sold her bike giving two successive discounts 20% and  $x\%$ . If marked price of bike is Rs. 800 and she sold it for 560, then find value of  $x$

- (a) 8%
- (b) 30%
- (c)  $12\frac{1}{2}\%$
- (d) 15%

Q13. Find  $\angle ODC$  in the given figure, if  $\angle ABC = 30^\circ$  &  $\angle BCO = \angle OCD = 20^\circ$



- (a)  $20^\circ$
- (b)  $80^\circ$
- (c)  $60^\circ$
- (d)  $40^\circ$

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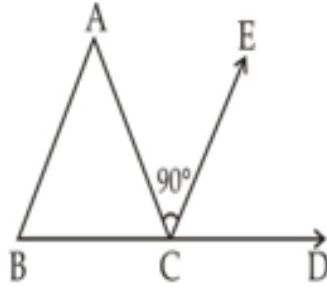
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Q14. In the given figure,  $AC \perp CE$  and  $\angle A : \angle B : \angle C = 3 : 2 : 1$ , find the value of  $\angle ECD$  :



- (a)  $50^\circ$
- (b)  $45^\circ$
- (c)  $55^\circ$
- (d)  $60^\circ$

Q15. G is the centroid of  $\Delta ABC$ . The medians AD and BE intersect at right angles. If the lengths of AD and BE are 9 cm and 12 cm respectively; then the length of AB (in cm) is ?

- (a) 11
- (b) 10
- (c) 10.5
- (d) 85

Q16. A earn Rs 180 per hour and works for 7 hours per day. B earn Rs 160 per hours and works for 5 hours a day. What is the ratio of per day wages of A & B?

- (a) 63 : 40
- (b) 70 : 30
- (c) 33 : 20
- (d) 40 : 61

Q17. The radius of two circles is 3 cm and 4 cm. The distance between the centres of the circles is 10 cm. What is the ratio of the length of direct common tangent to the length of the transverse common tangent?

- (a)  $\sqrt{51} : \sqrt{68}$
- (b)  $\sqrt{33} : \sqrt{17}$
- (c)  $\sqrt{66} : \sqrt{51}$
- (d)  $\sqrt{28} : \sqrt{17}$

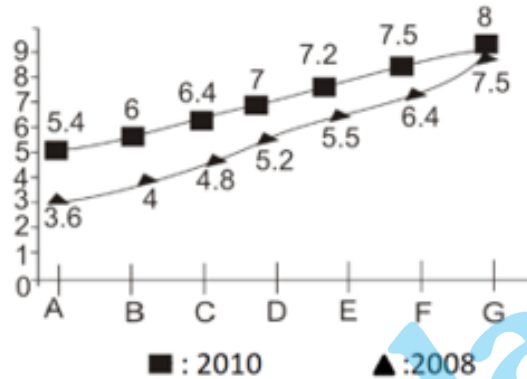
Q18. 441 packets of biscuit cost Rs 16 but a pack of 4 of the same packet of biscuit costs Rs 56. What is the effective discount (in %) on the pack?

- (a) 8
- (b) 10
- (c) 7.5
- (d) 12.5

Q19. In 1 kilometer race, if A gives B 30m start, A wins by 20 seconds but if A gives 30 seconds start B wins by 20 m. find the speed of B.

- (a) 5.75 m/s
- (b) 3.25 m/s
- (c) 4.75 m/s
- (d) 6.25 m/s

Q20. Following line-graph shows the population of seven cities (in lakh) and the table shows the percentage of literate population in these cities.



	% Literate 2008	% Literate 2010
A	57.80%	62.30%
B	63.10%	68.60%
C	59.20%	66.40%
D	64.50%	73.20%
E	67.70%	71.00%
F	65.80%	74.50%
G	68.90%	73.30%

What is the percentage rise in the population of city C from 2008 to 2010?

- (a) 27.5%
- (b) 33.3%
- (c) 36.8%
- (d) 37.5%

Q21. Two numbers are 50% and 90% lesser than a third number. By how much percent is the second number to be enhanced to make it equal to the first number?

- (a) 80 percent
- (b) 40 percent
- (c) 44.44 percent
- (d) 400 percent

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**Q22. Reduce 2714/5074 to lowest terms.**

- (a) 17/23
- (b) 29/43
- (c) 23/43
- (d) 31/37

**Q23. What is the value of cosec 120°**

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

**Q24. Volume of a cylinder is 770 cubic cm. If circumference of its base is 22 cm, what will be the curved surface area of the cylinder? (Take  $\pi = 22/7$ )**

- (a) 440 sq cms
- (b) 880 sq cms
- (c) 220 sq cms
- (d) 660 sq cms

**Q25. What will be the sum of the measures all the interior angles of a polygon having 14 sides?**

- (a) 2520°
- (b) 2160°
- (c) 2880°
- (d) 3240°

**Q26. A thief is spotted by a policeman from a distance of 350 metre. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief as 5 km/h and that of the policeman as 7 km/h, how far the thief would have run, before he is over- taken?**

- (a) 875 metres
- (b) 700 metres
- (c) 1050 metres
- (d) 525 metres

**Q27. A does 75% of a work in 25 days. He then calls in B and they together finish the remaining work in 5 days. How long B alone would take to do the whole work?**

- (a) 50 days
- (b) 80 days
- (c) 24 days
- (d) 37.5 days

Q28. The average of 29 consecutive even integers is 60. The highest of these integers is

- (a) 88
- (b) 118
- (c) 176
- (d) 120

Q29. What should be added to  $5(2x-y)$  to obtain  $4(2x - 3y) + 5(x + 4y)$ ?

- (a)  $3x - 13y$
- (b)  $3x + 13y$
- (c)  $13x - 3y$
- (d)  $13x + 3y$

Q30. If  $3(2 - 3x) < 2 - 3x \geq 4x - 6$ ; then  $x$  can take which of the following values?

- (a) 2
- (b) -1
- (c) -2
- (d) 1

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