

Quant Mega Quiz for SSC CGL Tier-1

Q1. 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

Q2. Reduce 2714/5074 to lowest terms.

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

Q3. What is the value of cosec 120°

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

Q4. 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

Q5. 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°

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Q6. 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

Q7. 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

Q8. The average of 29 consecutive even integers is 60. The highest of these integers is

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

Q9. 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) $13x + 3y$

Q10. 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

Q11. Amit bought 12 tables and 9 chairs for Rs 15400. He sold the tables at a profit of 10% and the chairs at a profit of 20%. If his total profit was Rs 2080. Then the cost of 3 Chairs is

- (a) Rs 2100
- (b) Rs 2400
- (c) Rs 2700
- (d) Rs 1800

Q12. A seller gives a discount of 18% on M.P. How much percent should be mark up so that he gains 6.6% profit?

- (a) 20
- (b) 30
- (c) 40
- (d) 35

Q13. A shopkeeper offers 25% and 20% discount successively and earns a profit of 20%. If no discount is allowed, then what is his profit percentage?

- (a) 100%
- (b) 50%
- (c) 200%
- (d) 150%

Q14. If average of five consecutive even number is M, then average of next five consecutive even numbers is?

- (a) 2M
- (b) M+5
- (c) M+10
- (d) M+15

Q15. Four number $(2x + 1)$, $(x + 2)$, 2 and 5 are in proportion. Find the mean proportion of $3.5(1 - x)$ and $8(1 + x)$

- (a) 23
- (b) $21/4$
- (c) 31
- (d) $25/4$

Q16. A Complete work in 30 days. B is 25% more efficient then A and C is 20% more efficient than B. If they work together for 3 days. Then in How many days the Remaining work will be completed by B.

- (a) 20
- (b) 30
- (c) 15
- (d) 25

Q17. At the rate of 8% per annum. What is the compound interest in $2\frac{5}{8}$ years for 12000 Rs.

- (a) 2796.64
- (b) 2696.64
- (c) 2564.32
- (d) 2400.64

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Q18. A person rows a distance of $3\frac{3}{4}$ km upstream in $1\frac{1}{2}$ hours and a distance of 15 km downstream in 2 hours. How much time (in hrs) will he take to row a distance of 80 km in still water.

- (a) 18
- (b) 24
- (c) 16
- (d) 20

Direction (19-20) : Read the information carefully and answer the question that follows. Number of students studying five different discipline from given institutes.

Institutes	Disciplines				
	Art	Commerce	Science	Management	Computer Science
A	340	250	460	150	300
B	250	340	410	190	330
C	470	280	350	170	380
D	430	450	425	130	350
E	260	360	350	230	340

Q19. What is the average number of students studying commerce from all the institutes together?

- (a) 336
- (b) 350
- (c) 325
- (d) 340

Q20. Number of students studying five different disciplines from institute D is what percent of number of students studying five different disciplines from institute 'A'?

- (a) 84.03%
- (b) 119%
- (c) 81.38%
- (d) 117.5%

Q21. $\frac{\sin 30 - \cos 60}{\sin 60 + \cos 30} =$

- (a) 0
- (b) $\frac{1}{2}$
- (c) $-\frac{1}{2}$
- (d) $\frac{\sqrt{3}}{2}$

Q22. If $x + y = 4$, $xy = 2$, $y + z = 5$, $yz = 3$, $z + x = 5$, $zx = 4$, find $x^3 + y^3 + z^3 - 3xyz$

- (a) $\frac{35}{32}$
- (b) 154
- (c) $\frac{7185}{32}$
- (d) None of these

Q23.

If $\cos\theta = \frac{2p}{p^2+1}$, then $\sin\theta$ is equal to:

- (a) $\frac{p^2-1}{p^2+1}$
- (b) $\frac{2p}{p^2-1}$
- (c) $\frac{p^2+1}{p^2-1}$
- (d) $\frac{p}{p^2+1}$

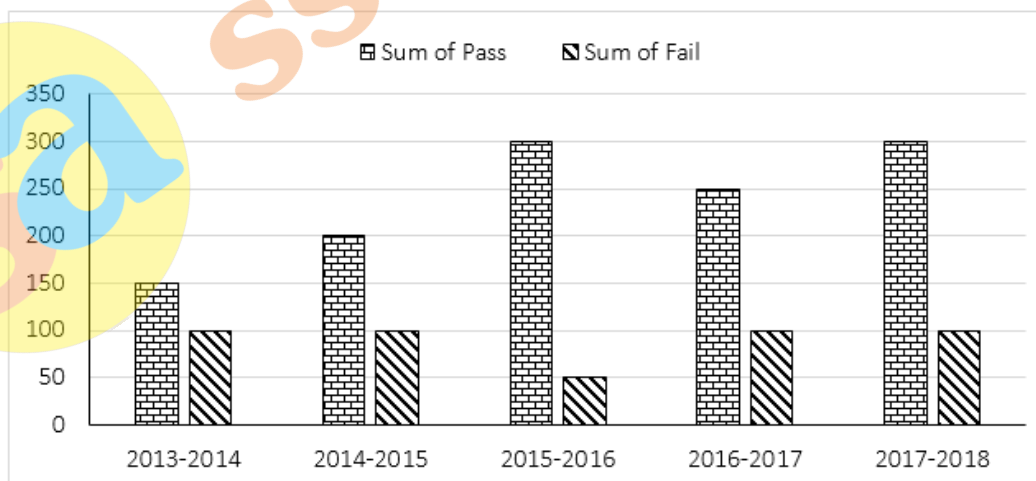
Q24. What is the area of a rhombus (in cm^2) whose side is 10 cm and the smaller diagonal is 12 cm?

- (a) 120
- (b) 192
- (c) 96
- (d) 50

Q25. The simplified value of $5 \text{ of } 8-6+[(27-3) \div 6-4]$ is:

- (a) 34
- (b) 40
- (c) 44
- (d) 36

Q26. The given Bar Graph presents the result in terms of number of students in a school for the five academic years. 2013-2014 to 2017-2018.



In which year the percentage increase in the total number of students in the highest in comparison to the previous academic year?

- (a) 2017-2018
- (b) 2015-2016
- (c) 2016-2017
- (d) 2014-2015

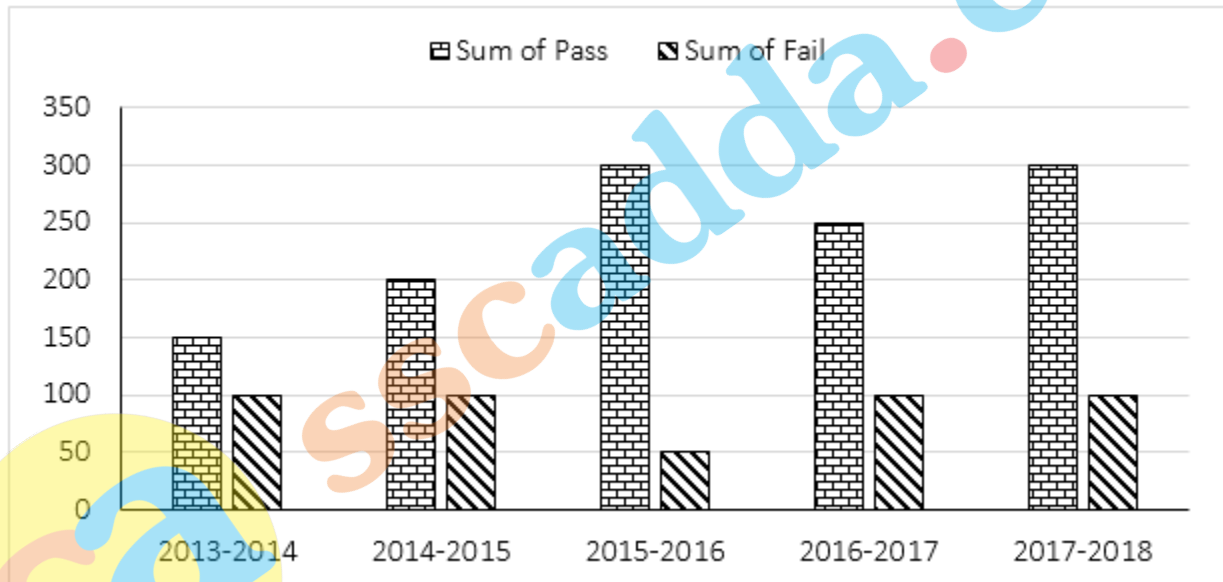
Q27. In triangles ABC, D and E are two points on the side of AB and AC respectively so that $DE \parallel BC$ and $AD/BD=3/4$. The ratio of the area of trapezium DECB to the area of ΔABC is:

- (a) 49:33
- (b) 49:40
- (c) 40:49
- (d) 33:49

Q28. If $\tan x = \cot(65^\circ + 9x)$, then what is value of x?

- (a) 2.5°
- (b) 1.0°
- (c) 2.0°
- (d) 1.5°

Q29. The given Bar Graph presents the result in terms of number of students in a school for the five academic years. 2013-2014 to 2017-2018.



What is the average of failed students in five academic years?

- (a) 75
- (b) 50
- (c) 100
- (d) 90

Q30. Two circles of radii 5 cm and 8 cm intersect at the points A and B. If $AB=8$ cm and the distance between the centres of two circles is x cm, then the value of x (to the closet integer) is:

- (a) 8
- (b) 10
- (c) 9
- (d) 11

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