

## Quant Mega Quiz for SSC 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.** The last digit of  $(1004)^{2008} + 1002$  is:

- (a) 0
- (b) 3
- (c) 4
- (d) 8

**Q12.** The unit digit in the product  $7^{71} \times 6^{63} \times 3^{65}$  is:

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Q13. Unit's digit of the number  $(22)^{23}$  is:

- (a) 4
- (b) 6
- (c) 8
- (d) 2

Q14. The digit in unit's place of the product  $(2153)^{167}$  is:

- (a) 1
- (b) 3
- (c) 7
- (d) 9

Q15. The weight of a container completely filled with water is 2.25 kg. The container weights 0.77 kg when its 0.2 part is filled with water. The weight (in kg) of the container when 0.4 part of its is filled with water, is

- (a) 0.40
- (b) 1.14
- (c) 0.74
- (d) 1.88

Q16. If  $(67^{67} + 67)$  is divided by 68. Then, the remainder is

- (a) 1
- (b) 67
- (c) 63
- (d) 66

Q17.  $[2^2 + 3^2 + 4^2 + 5^2 + 6^2 + 7^2 + 8^2 + 9^2 + 10^2]$  is equal to?

- (a) 385
- (b) 2916
- (c) 540
- (d) 384

Q18. If  $1^3 + 2^3 + \dots + 10^3 = 3025$ . Then,  $4 + 32 + 108 + \dots + 4000$  is equal to?

- (a) 12000
- (b) 12100
- (c) 12200
- (d) 12400



The advertisement features a woman, Neetu Singh, in a pink and white patterned top, sitting at a desk. The background is dark red. In the top right corner, there is a yellow box with the word 'BILINGUAL' in black. In the top left corner, there is a logo with the word 'LIVE' in white. Below the woman's image, the text 'ENGLISH BY NEETU SINGH' is written in white, followed by '12<sup>th</sup> May' in a larger white font. At the bottom, there are two orange boxes: the first contains 'Tue, Thr, Sat' and the second contains '5 pm - 7 pm'.

**Q19. Which of the following fractions is the smallest?**

- (a)  $7/6$
- (b)  $7/9$
- (c)  $4/5$
- (d)  $5/7$

**Q20.  $0.\overline{001}$  is equal to**

- (a)  $1/1000$
- (b)  $1/999$
- (c)  $1/99$
- (d)  $1/9$

**Q21. Factorise  $x^2 + 3x - 18$**

- (a)  $(x+18)(x-1)$
- (b)  $(x-1)(x+18)$
- (c)  $(x+6)(x-3)$
- (d)  $(x-6)(x+3)$

**Q22. Rohit walks at 17 km/hr and Ruchira cycles at 22 km/hr towards each other. What was the distance between them when they started if they meet after 44 minutes?**

- (a) 42.9 km
- (b) 35.8 km
- (c) 21.5 km
- (d) 28.6 km

**Q23. If sum of the roots of a quadratic equation is  $-7$  and product of the roots is  $12$ . Find the quadratic equation.**

- (a)  $x^2 + 7x + 12 = 0$
- (b)  $x^2 - 7x + 12 = 0$
- (c)  $x^2 - 7x - 12 = 0$
- (d)  $x^2 + 7x - 12 = 0$

**Q24. 20% discount is offered on an item. By applying a promo code the customer wins 10% cash back. What is the effective discount?**

- (a) 30.8 percent
- (b) 30 percent
- (c) 12 percent
- (d) 28 percent

**Q25. Reduce  $2530/1430$  to lowest terms.**

- (a)  $47/17$
- (b)  $23/13$
- (c)  $47/19$
- (d)  $29/17$

**Q26.** If  $5x - 3 \geq 3 + x/2$  and  $4x - 2 \leq 6 + x$ ; then  $x$  can take which of the following values?

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

**Q27.** The first and last terms of an arithmetic progression are 32 and -43. If the sum of the series is -88, then it has how many terms?

- (a) 16
- (b) 15
- (c) 17
- (d) 14

**Q28.** The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 18% per annum is Rs 81. The sum is \_\_\_\_.

- (a) Rs 2500
- (b) Rs 5000
- (c) Rs 10000
- (d) Rs 7500

**Q29.** In what ratio is the segment joining (12, -1) and (-3, 4) divided by the Yaxis?

- (a) 4:1
- (b) 1:4
- (c) 4:3
- (d) 3:4

**Q30.** The line passing through (4,3) and (y,0) is parallel to the line passing through (-1, -2) and (3,0). Find  $y$ ?

- (a) -1
- (b) -2
- (c) 2
- (d) -5

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