

## Quant Mega Quiz for SSC Tier - 1

**Q1.** Two donkeys are standing 400 meters apart. First donkey can run at a speed of 3 m/sec and the second can run at 2 m/sec. If two donkeys run towards each other after how much time (in seconds) will they bump into each other?

- (a) 40
- (b) 60
- (c) 80
- (d) 400

**Q2.** A man travels for 14 hours 40 minutes. He covers half of the journey by train at the rate of 60 km/hr. and rest half by road at the rate of 50 km/hr. The distance travelled by him is?

- (a) 720 kms
- (b) 800 kms
- (c) 960 kms
- (d) 1000 kms

**Q3.** A man can cover a certain distance in 3 hours 36 minutes if he walks at a speed of 5 km/hr. If he covers the same distance on cycle at the rate of 24 km/hr. then the time taken by him in minutes is?

- (a) 40
- (b) 50
- (c) 55
- (d) 45


**Q4.** Two rifles are fired from the same place at a difference of 11 min. 45 seconds. But a man who is coming towards the same place in a train hears the second sound after 11 minutes. Find the speed of the train (Assuming speed of sound = 330 m/s)?

- (a) 81 km/hr.
- (b) 72 km/hr.
- (c) 36 km/hr.
- (d) 108 km/hr.

**Q5.** If a distance of 50 m is covered in 1 minute, 90 m in 2 minutes and 130 m in 3 minutes and so on find the distance covered in 15 minutes?

- (a) 650 m
- (b) 610 m
- (c) 750 m
- (d) 1000 m

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**Q6.** The distance between place A and B is 999 km. An express train leaves place A at 6 am and runs at a speed of 55.5 km/hr. The train stops on the way for 1 hour 20 minutes. It reaches B at?

- (a) 12 AM
- (b) 1:20 PM
- (c) 12 PM
- (d) 1:20 AM

**Q7.** Two trains, A and B, start from stations X and Y towards Y and X respectively. After passing each other, they take 4 hours 48 minutes and 3 hours 20 minutes to reach Y and X respectively. If train A is moving at 45 km/hr., then the speed of the train B is?

- (a) 60 km/hr.
- (b) 64.8 km/hr.
- (c) 54 km/hr.
- (d) 45 km/hr.

**Q8.** A is twice as fast runner as B, and B is thrice as fast runner as C. If C travelled a distance in 1 hour 54 minutes, the time taken by B to cover the same distance is?

- (a) 19 min.
- (b) 38 min.
- (c) 57 min.
- (d) 51 min.

**Q9.** A man has to be at a certain place at a certain time. He finds that he shall be 20 minutes late if he walks at 3 km/hour speed and 10 minutes earlier if he walks at a speed of 4 km/hour. The distance he has to walk is?

- (a) 24 km
- (b) 12.5 km
- (c) 10 km
- (d) 6 km

**Q10.** Ravi and Ajay start simultaneously from a place A towards B, 60 km apart. Ravi's speed is 4km/hr. less than that of Ajay. Ajay, after reaching B, turns back and meets Ravi at a place 12 km away from B. Ravi's speed is?

- (a) 12 km/hr.
- (b) 10 km/hr.
- (c) 8 km/hr.
- (d) 6 km/hr.

**Q11.** A man completed a certain journey by a car. If he covered 30% of the distance at the speed of 20km/hr. 60% of the distance at 40km/hr. and the remaining distance at 10km/hr. his average speed for the whole journey was?

- (a) 25 km/hr.
- (b) 28 km/hr.
- (c) 30 km/hr.
- (d) 33 km/hr.

**Q12.** In covering a distance of 30 km, Abhay takes 2 hours more than Sameer. If Abhay doubles his speed, then he would take 1 hour less than Sameer. Abhay's speed (in km/hr.) is?

- (a) 5
- (b) 6
- (c) 6.25
- (d) 7.5

**Q13.** A and B started at the same time from the same place for a certain destination. B walking at  $\frac{5}{6}$  of A's speed reached the destination 1 hour 15 minutes after A. B reached the destination in?

- (a) 6 hours 45 minutes
- (b) 7 hours 15 minutes
- (c) 7 hours 30 minutes
- (d) 8 hours 15 minutes

**Q14.** Two persons ride towards each other from two places 55 km apart, one riding at 12km/hr. and the other at 10 km/hr. In what time will they be 11 km apart?

- (a) 2 hours and 30 minutes
- (b) 2 hours and 45 minutes
- (c) 1 hour and 30 minutes
- (d) 2 hours

**Q15.** In a 100m race, Raman defeats Aman by 8 seconds. If the speed of Raman is 30 Kmph, then the speed of Aman is?

- (a) 12 km/hr.
- (b) 16 km/hr.
- (c) 18 km/hr.
- (d) 24 km/hr.

**Q16.** Two trains of equal length are running on parallel lines in the same direction at 46 km/hour and 36 km/hour. The faster train passes the slower train in 36 seconds. The length of each train is?

- (a) 72 m
- (b) 80 m
- (c) 82 m
- (d) 50 m

**Q17.** A goods train starts running from a place at 1 P.M. at the rate of 18 km/hour. Another goods train starts from the same place at 3 P.M. in the same direction and overtakes the first train at 9 P.M. The speed of the second train in km/hr.is?

- (a) 24
- (b) 30
- (c) 15
- (d) 18

**Q18.** A thief is noticed by a policeman from a distance of 200m. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km/hr. and 11 km/hr. respectively. What is the distance between them after 6 minutes?

- (a) 200 m
- (b) 100 m
- (c) 150 m
- (d) 180 m

**Q19.** A constable is chasing a thief, he is 114 meters behind the thief. The constable runs 21 meters and the thief runs 15 meters in a minute. In what time will the constable catch the thief?

- (a) 17 min.
- (b) 16 min.
- (c) 19 min.
- (d) 18 min.

**Q20.** The ratio of length of two trains is 5: 3 and the ratio of their speed is 6: 5. The ratio of time taken by them to cross a pole is?

- (a) 18: 25
- (b) 5: 6
- (c) 25: 16
- (d) 25: 18

**Q21.**

If  $6x^2 - 12x + 1 = 0$ ,

then the value of  $27x^3 + \frac{1}{18x^3}$  is

- (a) 234
- (b) 162
- (c) 198
- (d) 189

**Q22.**

$x^4 + x^{-4} = 1154, (x > 0)$ ,

then the value of  $x^3 + x^{-3}$  ?

- (a) 198
- (b) 234
- (c) 189
- (d) 36

**Q23.**

If  $x = a + \frac{1}{a}$  and  $y = a - \frac{1}{a}$ ,

then the value of  $x^4 + y^4 - 2x^2y^2$  is?

- (a) 4
- (b) 8
- (c) 16
- (d) 64



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**Q24.**

If  $a^3 - b^3 = 56$  and  $a - b = 2$ ,  
what is the value of  $(a^2 + b^2)$ ?

- (a) 12
- (b) 20
- (c) 28
- (d) 32

**Q25.**

$$x^2 + \frac{1}{x^2} = 38,$$

then find the value of  $\frac{6x(x-1)}{x^3 - x^2 - x + 1}$

- (a) 0
- (b) 1
- (c) 2
- (d) 3

**Q26.**

If  $(a > b)$  such that  $a^2 + ab = 21$  and  $ab + b^2 = -9$ ,  
then find  $a - b = ?$

- (a)  $2\sqrt{5}$
- (b)  $4\sqrt{2}$
- (c)  $5\sqrt{3}$
- (d)  $6\sqrt{6}$

**Q27.**

If  $a^3 = 117 + b^3$  and  $a = 3 + b$ ,  
then the value of  $(a + b)$  is?

- (a)  $\pm 7$
- (b)  $\pm 49$
- (c)  $\pm 13$
- (d) 0

**Q28.**

If  $a + b + c = 12$  and  $a^2 + b^2 + c^2 = 134$ , find the value of  
 $bc(b + c) + ca(c + a) + ab(a + b) + 3abc = ?$

- (a) 48
- (b) 60
- (c) 66
- (d) 72

Q29.

If  $x^2 + y^2 + z^2 = xy + yz + zx$ ,

then the value of  $\frac{3x^4 + 7y^4 + 5z^4}{5x^2y^2 + 7y^2z^2 + 3z^2x^2}$

- (a) 1
- (b) 2
- (c) 0
- (d) -1

Q30.

If  $a^3 + b^3 = 20$  and  $a + b = 5$ ,

then find the value of  $a^4 + b^4 = ?$

- (a) 24
- (b) 26
- (c) 25
- (d) 23



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