

Quant Mega Quiz for RRB NTPC

Q1. 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

Q2. 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

Q3. The average of 29 consecutive even integers is 60. The highest of these integers is

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

Q4. 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) $13x + 3y$

Q5. 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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Q6. If $\sec^2 A + \operatorname{cosec}^2 A = X$, then the value of X is

- (a) $\tan^2 A \cot^2 A$
- (b) $\sin A \cos A$
- (c) $\sec A \operatorname{cosec} A$
- (d) $\sec^2 A \operatorname{cosec}^2 A$

Q7. The effective annual rate of interest corresponding to a nominal rate of 15% per annum payable half-yearly is

- (a) 15.56 percent
- (b) 30 percent
- (c) 31.13 percent
- (d) 15 percent

Q8. If $(4x - 3) - (2x + 1) = 4$, then the value of x is

- (a) 0
- (b) 1
- (c) 4
- (d) 3

Q9. 25% discount is offered on an item. By applying a promo code a customer wins 10% cash back. What is the effective discount?

- (a) 35.75 percent
- (b) 32.5 percent
- (c) 35 percent
- (d) 12.5 percent

Q10. Which of the following equations has real and distinct roots?

- (a) $3x^2 - 6x + 2 = 0$
- (b) $3x^2 - 6x + 3 = 0$
- (c) $x^2 - 8x + 16 = 0$
- (d) $4x^2 - 8x + 4 = 0$

Q11. In a triangle the length of the side opposite the angle which measures 30° is 9 cm, what is the length of the side opposite to the angle which measures 60° ?

- (a) $3\sqrt{3}$ cm
- (b) $3/2$ cm
- (c) $9/2$ cm
- (d) $9\sqrt{3}$ cm

Q12. For triangle ABC, what would be the equation of median AD if co-ordinates of A, B and C are $(-5, 4)$, $(-4, 0)$ and $(-2, 2)$ respectively?

- (a) $3x - 2y = -11$
- (b) $3x + 2y = 7$
- (c) $3x + 2y = -7$
- (d) $3x - 2y = 11$

Q13. A wholesaler sells a watch to a retailer at a gain of 37% and the retailer sells it to a customer at a loss of 25%. If the customer pays Rs 2,620.125, what had it cost the wholesaler?

- (a) Rs 2550
- (b) Rs 2692
- (c) Rs 3327
- (d) Rs 2408

Q14. The ratio of present ages of Rasika and Shami is 7:5. After 17 years the ratio of their ages will be 12:11. What is Rasika's present age?

- (a) 5
- (b) 80
- (c) 16
- (d) 7

Q15. If $\tan A + \tan B = X$, then the value of X is

- (a) $(\tan A - \tan B) / (1 + \tan A \tan B)$
- (b) $(\tan A + \tan B) / (1 - \tan A \tan B)$
- (c) $(\tan A + \tan B) / (1 + \tan A \tan B)$
- (d) $(\tan A - \tan B) / (1 - \tan A \tan B)$

Q16. At least one diagonal bisects the other in a ____.

- (a) Trapezium
- (b) Isosceles trapezium
- (c) Kite
- (d) Cyclic quadrilateral

Q17. 25% discount is offered on an item. By applying a promo code the customer wins 4% cash back. What is the effective discount?

- (a) 28 percent
- (b) 29.12 percent
- (c) 29 percent
- (d) 5 percent

Q18. What is the HCF (highest common factor) of 133 and 112?

- (a) 15
- (b) 7
- (c) 19
- (d) 16

Q19. Value of $(4a^2 + 12ab + 9b^2) / (2a + 3b)$ is

- (a) $2a - 3b$
- (b) $2a + 3b$
- (b) $2a$
- (d) $3b$

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Q20. What is the equation of line whose slope is $-1/2$ and passes through the intersection of the lines $x - y = -1$ and $3x - 2y = 0$?

- (a) $x + 2y = 8$
- (b) $3x + y = 7$
- (c) $x + 2y = -8$
- (d) $3x + y = -7$

Q21. Curved surface area of a cylinder is 1232 sq cm. If circumference of its base is 154 cm, then what will be the height of the cylinder? (Take $\pi = 22/7$)

- (a) 16 cm
- (b) 4 cm
- (c) 8 cm
- (d) 12 cm

Q22. A student multiplied a number by $3/10$ instead of $10/3$. What is the percentage error in the calculation?

- (a) 1011.11 percent
- (b) 45.5 percent
- (c) 91 percent
- (d) 505.56 percent

Q23. What is the area of the sector whose central angle is 90° and radius of the circle is 14 cm?

- (a) 308 sq cm
- (b) 77 sq cm
- (c) 154 sq cm
- (d) 231 sq cm

Q24. Coefficient of x^2 in $(x + 9)(6 - 4x)(4x - 7)$ is

- (a) 216
- (b) -4
- (c) -92
- (d) 108

Q25. Given: $5x - 3(2x-7) > 3x - 1 < 7 + 4x$; then x can take which of the following values?

- (a) 6
- (b) 9
- (c) -6
- (d) -9

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