

Quant Mega Quiz for RRB NTPC

Q1. The volume of a solid cylinder with height 784 cm is 246400 cm³. The radius of cylinder is— (a) 12 (b) 28 (c) 10 (d) 14 Q2. What is the value of $\frac{[(\sin 15^{\circ} + \sin 75^{\circ})(\sin 15^{\circ} - \sin 75^{\circ})]}{[(\cos 15^{\circ} + \cos 75^{\circ})(\cos 15^{\circ} - \cos 75^{\circ})]}$ (a) 0(b) 1 (c) -1 (d) 2 Q3. If $x^2 - 4x + 1 = 0$, then find $x^{-1}(x^8 + 1)(x^{-3}) = ?$ (a) 198 (b) 194 (c) 14 (d) 196

Q4. If A had worked alone he would have taken 63 hours to do the task. What is B's share, if A and B together on a task finishing it in 36 hours and they get paid Rs. 5,950 for it?

- (a) 3600
- (b) 3400
- (c) 2750
- (d) 2550

Q5. The volume of conical tent is 4620 m³ and its base area is 1386 m². The height of the tent is —

- (a) 11 m
- (b) 10 m
- (c) 12 m
- (d) 14 m

Q6. If it takes 42 days for a pond to get filled with rain water. If the level of water doubles each day. Then how long would it take to fill 1/16 of pond.

- (a) 38 days
- (b) 39 days
- (c) 32 days
- (d) 8 days



TEST SERIES

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Q7. In what ratio should coffee costing Rs. 2800/kg be mixed with coffee costing Rs. 1750/kg so that the cost of the mixture is Rs. 2150/kg.

- (a) 8 : 13
- (b) 13:8
- (c) 7 : 5
- (d) 5 : 7

Q8. Ram and Pankaj started a partnership business investing in the ratio of 7 : 42. Atul joined them after 5 months with an amount equal to $\frac{2}{21}$ th of Pankaj. What was their profit (in Rs.) at the end of the year if Atul got Rs. 5060 as his share? con

- (a) 1, 10, 420
- (b) 1, 11, 320
- (c) 98,720
- (d) 1,05,472

Q9. The average of 27 numbers is zero, out of them how many may be greater than zero, at the most? 301

- (a) 15
- (b) 20
- (c) 26
- (d) 0

Q10.A fraction is greater than twice its reciprocal by 7/15. What is the fraction?

- (a) 3/5
- (b) 5/3
- (c) 3/4
- (d) $\frac{4}{3}$

Q11. What is the reflection of the point (-3, 1) in the line x = -2?

- (a) (-1, 1)
- (b) (-3, -5)
- (c) (1, 1)
- (d)(-3,5)

Q12.If ax - 4y = -6 has a slope of -3/2. What is the value of a?

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



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5

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Directions (13-16): The pie chart given below shows the number of shoes of 5 different brands in a multi brand store. There are total 1200 shoes.



Q13.How many shoes are there of Reebok brand?

- (a) 230
- (b) 276
- (c) 286
- (d) 216

Q14.What is the difference in number of shoes of Puma and Vans?

- (a) 96
- (b) 156
- (c) 84
- (d) 112

Q15.The difference between the number of shoes of Reebok and Nike is same as the difference between which of the following two brands?

- (a) Puma and Adidas
- (b) Reebok and Adidas
- (c) Vans and Nike
- (d) Nike and Adidas

Q16.Puma shoes are how much percent more than the Nike Shoes?

- (a) 14.28
- (b) 16.66
- (c) 25
- (d) 21.33



Directions (17-20): The table given below shows the percentage of literate people in 6 cities. The table also shows the ratio of males to females among literate people.

City	% of literate people	Males : Females
City 1	80	4:5
City 2	85	7:4
City 3	78	3:2
City 4	63	1:1
City 5	92	9:7
City 6	58	2:3

% of literate people of any city = (Literate people of the city/Total population of the city) × 100

Q17.If the total population of City 4 is 600000, then how many literate people are there in city 4?

- (a) 480000
- (b) 378000
- (c) 468000
- (d) 348000

Q18.Total population of City 6 is 200000 and the total population of City 2 is 220000. What is the respective ratio of literate males of City 2 and literate females of City 6?

- (a) 348 : 595
- (b) 255 : 199
- (c) 595 : 348
- (d) 199 : 255

Q19.If there are 259210 literate females in City 5, then what is the total population of City 5?

- (a) 644000
- (b) 354200
- (c) 6<mark>90000</mark>
- (d) <mark>483000</mark>

4

Q20.The population of the 6 cities are 250000, 200000, 220000, 300000, 150000 and 400000 respectively. Which is the correct order of the number of literate people inthese cities?

(a) City 6 > City 1 > City 4 > City 2 > City 3 > City 5
(b) City 4 > City 6 > City 1 > City 2 > City 3 > City 5
(c) City 6 > City 4 > City 1 > City 3 > City 2 > City 5
(d) City 6 > City 1 > City 4 > City 3 > City 2 > City 5

Q21. If $2x^2 + y^2 + 6x - 2xy + 9 = 0$, then the value of $(4x^3 - y^3 + x^2y^2)$ is—	
(a) -9	
(b) 9	
(c) 0	
(d) -3	



Q22. If $\frac{\sin^2\theta}{\tan^2\theta - \sin^2\theta} = 3$, $0^\circ < \theta < 90^\circ$, then the value of $\tan \theta + \sec \theta$ is— (a) $\sqrt{3}$ (b) $2\sqrt{3}$ (c) $\frac{\sqrt{3}}{2}$ $(d) \frac{3\sqrt{3}}{4}$

Q23. The average of twelve numbers is 47. The average of the first six numbers is 49 and that of the last three numbers is 45.5. The 7th , 8th and 9th numbers are equal. Find the ratio of average of 7th and 8th number to that of 8th and 9th numbers. c.or

(a) 4 : 7

(b) 7:4

(c) ⊥ : 1

(d) 2 : 3

Q24. Simple interest on a certain sum at certain rate of interest is 529% of the sum. If the number represents rate percent and time in years be equal then the rate of interest is—

(a) 24.5%

(b) 23%

(c) 23.12%

(d) 22.23%

Q25. A sum of Rs 56960 is divided among A, B and C such that A receives 10% more than B and B receives 12% less than C. What is C's share in the amount?

- (a) 17600
- (b) 9653.2
- (c) 19360
- (d) 20000

