Mathematics Mega Quiz For RRB NTPC

Q1. If A is equal to 20% of B and B is equal to 25% of C; then what percent of C is A?

(a) 10
(b) 15
(c) 5
(d) 20

Q2. A gun is fired at a distance of 1.7 km from Ram and he hears the sound after 25 seconds. The speed of sound in meter per second is:

(a) 60
(b) 62
(c) 64
(d) 68

Q3. A sum of Rs. 3000 yields an interest of Rs. 1080 at 12% per annum simple interest in how many years?

(a) 4 Years
(b) 3 Years
(c) 5 years
(d) $2\frac{1}{2}$ years

Q4. The area of the largest triangle that can be inscribed in a semicircle of radius 6m is:

(a) 36 m^2
(b) 72 m^2
(c) 18 m^2
(d) 12 m^2

Q5. Three numbers are in the ratio 5:7:12. If the sum of the first and the third is greater than the second by 50. The sum of the three numbers is:

(a) 125
(b) 120
(c) 95
(d) 85

Q6. If the income of Mohan is 150% higher than Mahesh, then by what percent the income of Mahesh is less than Mohan?

(a) 40%

(b) 50%

(c) 60%

(d) 45%

Q7. If ΔPQR and ΔLMN are similar and 3PQ = LM and MN = 9 cm, then QR is equal to:

(a) 12 cm

(b) 6 cm

(c) 9 cm

(d) 3 cm

Q8. Possible length of the three sides of a triangle are:-

(a) 2 cm, 3 cm, 6 cm

(b) 3 cm, 4 cm, 5 cm

(c) 2.5 cm, 3.5 cm, 6 cm

(d) 4 cm, 4 cm, 9 cm

Q9. A can do a work in 12 days while B can do it in 15 days. They undertake to complete it together for Rs. 450. what will be the share of A in this amount of money?

(a) Rs. 200

(b) Rs. 240

(c) Rs. 250

(d) Rs. 300

Q10. 36 men together can build a wall 140 m long in 21 days; the number of men working at the same rate required to build the same wall in 14 days is?

(a) 54

(b) 48

(c) 36

(d) 18

Q11. The rate of working of A and B are in the ratio of 2:3. The number of days taken by them to finish the work is in the ratio:

(a) 2:3

(b) 4:9

(c) 3:2

(d) 9:4

Q12. The ratio of two positive numbers is 3:4. The sum of their squares is 400. What is the sum of the numbers?

(a) 28

(b) 22

(c) 24

(d) 26

Q13. For what sum will the simple interest at R% for R years will be R?

(a) $\frac{100}{2R}$

(b) $\frac{50}{R}$

(c) $\frac{100}{R}$

(d) $\frac{200}{R}$

Q14. Two circles touch each other externally. The distance between their centres is 7 cm. If the radius of one circle is 4 cm, then the radius of the other circle will be

(a) 3 cm

(b) 4 cm

(c) 5.5 cm

(d) 3.5 cm

Q15. Let ΔABC and ΔABD be on the same base AB and between the same parallels AB and CD. Then the relation between areas of triangles ΔABC and ΔABD will be

(a) $\Delta ABD = \frac{1}{3}\Delta ABC$

(b) $\Delta ABD = \frac{1}{2}\Delta ABC$

(c) $\Delta ABC = \frac{1}{2}\Delta ABD$

(d) $\Delta ABC = \Delta ABD$

Q16. While selling a watch, a shop-keeper gives a discount of 5%. If he gives a discount of 7%, he earns 15 less as profit. The marked price of the watch is

(a) 697.5

(b) 712.5

(c) 750

(d) None of the these

Q17. A student, by mistake, wrote 64 in place of 46 as a number at the time of finding the average of 10 given numbers & got the average as 50. The correct average of the numbers is

(a) 48.2

(b) 48

(c) 48.1

(d) 49

Q18. The successive discount of 15%, 20% and 25% on an article is equivalent to the single discount of

(a) 60%

(b) 47%

(c) 49%

(d) 40%

Q19. If the ratio of cost price and selling price be 10:11, then the profit percentage is

(a) 1%

(b) 10%

(c) 5%

(d) 8%

Q20. Which of the set of three sides can't form a triangle?

(a) 5 cm, 6 cm, 7 cm

(b) 5 cm, 8 cm, 15 cm

(c) 8 cm, 15 cm, 18 cm

(d) 6 cm, 7 cm, 11 cm

Q21. The perimeters of a square and a rectangle are equal . If their area be 'A' m^2 and 'B' m^2 then correct statement is:

(a) $A < B$

(b) $A \leq B$

(c) $A > B$

(d) $A \geq B$

Q22. What will be the percentage of increase in the area of a square when each of its sides is increased by 10%?

(a) 20

(b) 11

(c) 121

(d) 21

Q23. ABCD is a cyclic trapezium with AD || BC . If ∠A = 105°, then other three angles are

(a) ∠B = 75°, ∠C = 75°, ∠D = 105°

(b) ∠B = 105°, ∠C = 75°, ∠D = 75°

(c) ∠B = 75°, ∠C = 105°, ∠D = 75°

(d) ∠B = 105°, ∠C = 105°, ∠D = 75°

Q24. The ratio of circumradius and inradius of an equilateral triangle is:

(a) 1 : 2

(b) 3 : 1

(c) 2 : 1

(d) 1 : 3

Q25. When a number is divided by 56, the remainder is 29. If the same number is divided by 8, then the remainder will be

(a) 6

(b) 7

(c) 5

(d) 3