Quantitative Aptitude for RRB NTPC

Q1. Which of the following is a prime number?
(a) 177
(b) 169
(c) 173
(d) 187

Q2. If # means adding twice the second number to the first number then (4 # 2) # 3 equals.
(a) 9
(b) 14
(c) 24
(d) none of these

Q3. A number when divided by 195 leaves a remainder 48. If the same number is divided by 15, the remainder will be?
(a) 3
(b) 4
(c) 1
(d) Can't be determined

Q4. In limestone, 40% is calcium and the rest is carbon and oxygen. If in 20 kg of limestone, there is 9.4 kg of oxygen, then what is the percentage of carbon in it ?
(a) 17%
(b) 13%
(c) 25%
(d) 9%

Q5. A dealer professes to sell his goods at cost price but he uses a false weight of 950 grams for a kilogram. The gain percent of the dealer is.
(a) $3\frac{3}{19}$
(b) $4\frac{1}{7}$
(c) $5\frac{5}{19}$
(d) $4\frac{3}{21}$

Q6. The dimensions of a rectangular room when increased by 4 metres, are in the ratio of 4 : 3 and when decreased by 4 metres, are in the ratio of 2 : 1. Find the dimensions of the room.

(a) 6, 10

(b) 36, 32

(c) 24, 18

(d) 12, 8

Q7. Visitors to a drama were charged Rs 150 each on the first day, Rs 75 on the second day and Rs 25 on the third day. The attendance on the three days was in the ratio 2 : 5 : 9. The average charge per person for the whole drama was.

(a) 64.14

(b) 56.25

(c) 49.91

(d) 72.68

Q8. A garrison of 2000 men has provision of ration for 66 days. At the end of a fortnight, reinforcement arrives and it is found that ration will last only for 20 days more.

The strength of the reinforcement is.

(a) 4800

(b) 1600

(c) 3200

(d) 2800

Directions (9-10): These questions are based on following information.

P and Q are 120 km apart, A starts from P towards Q at 6 am. B starts from Q towards P at 11 am on the same day. A is 50% faster than B. They cross each other at 8 pm.

Q9. At what time will A reach his destination?

(a) Midnight

(b) 11 pm

(c) 4 pm

(d) 2 am

Q10. In reaching his destination, how many more hours than A, will B take?

(a) 10 hr

(b) 25 hr

(c) 20 hr

(d) 8 hr

Q11. P and Q are 120 km apart, A starts from P towards Q at 6 am. B starts from Q towards P at 11 am on the same day. A is 50% faster than B. They cross each other at 8 pm.A's speed (in kmph) is ?

(a) 4
(b) 6
(c) 8
(d) 10

Q12. A sum of money at simple interest amounts to Rs 815 in 3 yrs and to Rs 854 in 4 yrs. The sum is

(a) Rs 698
(b) Rs 650
(c) Rs 742
(d) Rs 750

Q13. The difference between simple interest and compound interest on Rs P at R% p.a. in 2 yrs is.

(a) $\frac{PR}{100}$
(b) $\frac{2PR}{100}$
(c) $\frac{PR^2}{100^2}$
(d) $\frac{2PR^2}{100^2}$

Q14. If the length of the diagonal of a square is 20 cm, then its perimeter must be

(a) $40\sqrt{2}$ cm
(b) 200 cm
(c) $20\sqrt{2}$ cm
(d) 40 cm

Q15. A train crosses a platform 100 m long in 60 seconds at a speed of 45 km/hr. Find the length of the train.

(a) 540 m
(b) 650 m
(c) 300 m
(d) 350 m

Q16. 80% of a number is equal to the 4/5 th of the other number. What is the ratio between the first number and the second number respectively?

(a) 3 : 4
(b) 4 : 5
(c) 1 : 1
(d) 1 : 2

Q17. Divide the number 455 in the ratio 4 : 3. Find difference between parts.
(a) 123
(b) 55
(c) 143
(d) 65

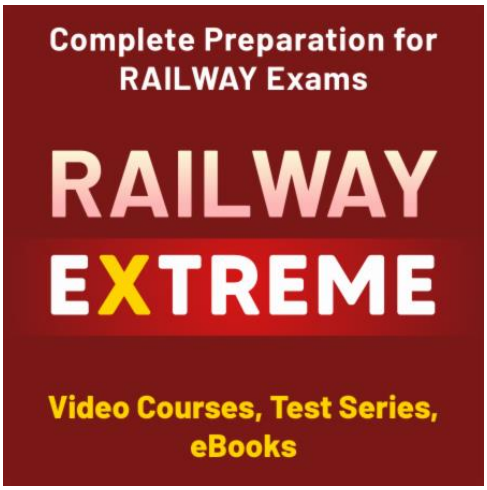
Q18. Ram and Sheela are partners in a business. Ram invests Rs 35000 for 8 months and Sheela invests Rs 42000 for 10 months. Out of a profit of Rs 31570 Ram's share is.
(a) 14319
(b) 12628
(c) 16480
(d) 10304

Q19. 49 pumps can empty a reservoir in $6\frac{1}{2}$ days, working 8 hours a day. If 196 pumps are used for 5 hrs each day, then the same work will be completed in.
(a) $3\frac{2}{5}$ days
(b) $5\frac{2}{3}$ days
(c) $2\frac{3}{5}$ days
(d) $4\frac{1}{3}$ days

Q20. The diameter of the wheel of a vehicle is 70 cm. The wheel makes 10 revolutions in 5 seconds. The speed of the vehicle is ?
(a) 4.4 mps
(b) 4.9 mps
(c) 5.5 mps
(d) 5.8 mps

Q21. Kishan jogs 9 km at a speed of 6 km per hour. At what speed would he need to jog during the next 1.5 hours to have an average of 9 km per hour for the entire jogging session?
(a) 15 kmph
(b) 12 kmph
(c) 18 kmph
(d) 16 kmph

Q22. The speed of boat in still water is 10 km/hr. If it can travel 26 km downstream and 14 km upstream in the same time, the speed of the stream is.
(a) 6 km/hr
(b) 4.5 km/hr
(c) 2 km/hr
(d) 3 km/hr



Q23. Amit covers 3/5 of the total journey by train, 7/20 by car and the remaining 13 km by cycle. His total journey is

(a) 260 km

(b) 240 km

(c) 300 km

(d) 280 km

Q24. If a commission of 10% is given on the written price of an article, the gain is 20%. If the commission is increased to 15%, the gain is

(a) $14\frac{1}{5}\%$

(b) $12\frac{1}{2}\%$

(c) $13\frac{1}{3}\%$

(d) $15\frac{1}{5}\%$

Q25. If 35% of a number is 280, then how many times of 280 is that number.

(a) 7/20

(b) 20/7

(c) 4/7

(d) 5/9

Q26. Find the square root of $(3+\sqrt{5})$?

(a) $\sqrt{\frac{3}{2}}+\sqrt{\frac{1}{3}}$

(b) $\sqrt{\frac{7}{2}}+\sqrt{\frac{3}{4}}$

(c) $\sqrt{\frac{5}{2}}+\sqrt{\frac{1}{2}}$

(d) $\sqrt{\frac{5}{3}}+\sqrt{\frac{3}{5}}$

Q27. If $2^x = \sqrt[3]{32}$ then x is equal to ?

(a) 3/5

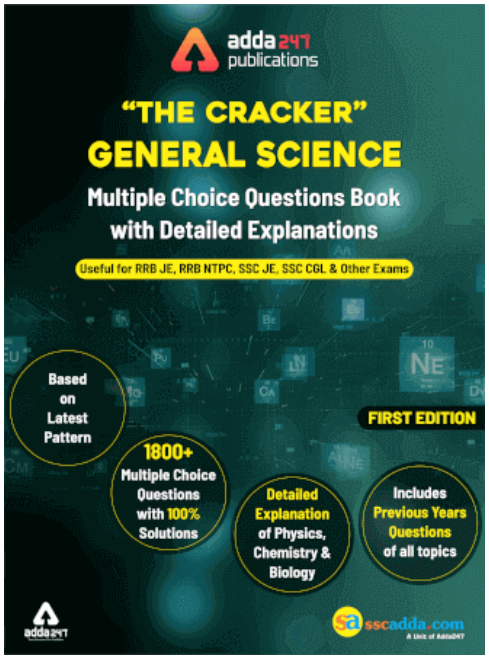
(b) 5/3

(c) 3

(d) 5

Q28. If the sum of two numbers is 33 and their difference is 15, the smaller number is

(a) 9
(b) 24
(c) 12
(d) 6



Q29. The ratio of two numbers is 3 : 4 and their LCM is 120. The sum of numbers is

(a) 110
(b) 95
(c) 50
(d) 70

Q30. Find the value of 200 ÷ 25 × 4 – 16 +3?

(a) 32
(b) 19
(c) 16
(d) 9

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