

Quantitative Aptitude for RRB NTPC

Q1. The profit earned by a shopkeeper by selling a bucket at a gain of 8% is Rs. 28 more than when he sells it at a loss of 8%. The cost price (in Rupees) of the bucket is

- (a) 170
- (b) 190
- (c) 175
- (d) 165

Q2. A Man bought 500 meters of electric wire at 50 paise per meter he sold 50% part at the profit of 5%, at what % profit he sold remaining as to gain 10% on the whole transaction?

- (a) 13%
- (b) 12.5%
- (c) 15%
- (d) 20%

Q3. A bookseller allowed 10% discount on the printed price. He gets 30% commission from the publisher. His profit in percent will be

- (a) 20
- (b) $28\frac{4}{7}$
- (c) 25
- (d) $28\frac{3}{7}$


Q4. A dealer is selling an article at a discount of 5% on the marked price. If the market price is 12% above the cost price and the article was sold for Rs. 532 then the cost price is (in Rs.)

- (a) 500
- (b) 525
- (c) 505
- (d) 520

Q5. A shopkeeper increases the price of an object by 40% and then sells it at 25% discount on the marked price. If the selling price of such an object be Rs. 2100, its cost price for the shopkeeper was?

- (a) 3000
- (b) 1500
- (c) 1750
- (d) 2000

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Q6. By what fraction selling price (S.P.) must be multiplied to get the cost price (C.P.) if the loss is 20%?

- (a) $\frac{4}{5}$
- (b) $\frac{8}{5}$
- (c) $\frac{5}{4}$
- (d) $\frac{6}{5}$

Q7. Ramesh sold a book at a loss of 30%. If he has sold it for Rs. 140 more, he would have made a profit of 40%. The cost price of the book is

- (a) Rs. 280
- (b) Rs. 200
- (c) Rs. 260
- (d) Rs. 300

Q8. A shopkeeper purchased 510 eggs at the rate of Rs. 20 per dozen. 30 eggs were broken on the way. In order to make a gain of 20%, he must sell the remaining eggs at the rate of

- (a) Rs. 22.50 per dozen
- (b) Rs. 25.50 per dozen
- (c) Rs. 26 per dozen
- (d) Rs. 26.50 per dozen

Q9. A sells a watch to B and makes a loss of 12%. B makes a profit of $12\frac{1}{2}\%$ by selling the watch to C. If A sells the watch to B at the cost of which C purchased it, then the percentage of loss or profit of A will be.

- (a) 1% loss
- (b) 1% Profit
- (c) 2% loss
- (d) 2% Profit

Q10. A man buys 3 type-I cakes and 6 types-II cakes for Rs. 900. He sells type-I cakes at a profit of 15% and type-II cakes at a loss of 10%. If his overall profits is Rs. 30, the cost price (in Rs.) of a type-I and of a type-II cakes is

- (a) 100, 100
- (b) 160, 70
- (c) 180, 60
- (d) 120, 90

Q11. An equilateral triangle having side of 12 cm each, find its circumradius.

- (a) $\frac{4}{3}\sqrt{3}$ cm
- (b) $4\sqrt{3}$ cm
- (c) $4\sqrt{2}$ cm
- (d) $\frac{4}{3}\sqrt{2}$ cm

Q12. If the numerical values of the circumference and area of a circle are same, then find its diameter.

- (a) 1
- (b) 2
- (c) 4
- (d) π

Q13. Two poles are of height 15 m and 30 m respectively are 36 m apart. Find the distance between their tops.

- (a) 41 metre
- (b) 36 metre
- (c) 39 metre
- (d) 49 metre

Q14. Find the area of the hexagon, whose side is of 4 m.

- (a) $6\sqrt{3}$ sq. metre
- (b) $24\sqrt{3}$ sq. metre
- (c) $42\sqrt{3}$ sq. metre
- (d) 24 sq. metre

Q15. A wire of 25 cm. length is being changed in an arc of circle. Whose angle subtended to the centre is 75° , then find the radius of circle.

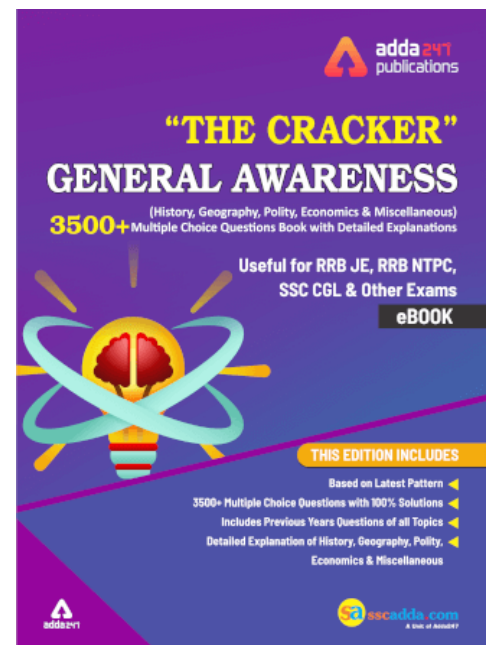
- (a) $\frac{\pi}{120}$
- (b) $\frac{60}{\pi}$
- (c) 60π
- (d) None of these

Q16. Capital education private limited buys a plot of circular land in Rs. 158400 with the rate of Rs. 1400 per meter², then find the radius of that plot?

- (a) 5 meter
- (b) 6 meter
- (c) 7 meter
- (d) 14 meter

Q17. A square has each side 10 cm. If a largest circle is cut down from it then find ratio of area of circle & square?

- (a) $\frac{4}{5}$
- (b) $\frac{3}{5}$
- (c) $\frac{11}{14}$
- (d) $\frac{6}{7}$



Q18. The perimeter of a rectangular field is 480 m, while the ratio of length and breadth is 5 : 3, then find its area?

- (a) 15500 m^2
- (b) 13500 m^2
- (c) 1550 m^2
- (d) 1350 m^2

Q19. If the areas of two circles are in the ratio 4 : 9, then find the ratio of their circumference.

- (a) 2 : 3
- (b) 3 : 2
- (c) 4 : 9
- (d) 9 : 4

Q20. A wire is formed in circle which has radius 42 meter and now a square is formed, then find diagonal of square?

- (a) 66 meter
- (b) $66\sqrt{3}$ meter
- (c) $66\sqrt{2}$ meter
- (d) None of these

Q21. A bank offers 10% compound interest per half year. A customer deposits Rs. 5200 each on 1st January and 1st July of a year. At the end of the year, the amount he would have profit by way of interest is:

- (a) Rs. 3224
- (b) Rs. 1612
- (c) Rs. 806
- (d) Rs. 403

Q22. In which of the following quadrilaterals both pairs of opposite sides are parallel?

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

Q23. The sum of the digits of a 2-digit number is 8. If we add 36 to the number, the new number obtained is a number formed by interchange of the digits. What is the number?

- (a) 26
- (b) 62
- (c) 34
- (d) 43

Q24. A tent is to be built in the form of a cylinder of radius 5 m surmounted by a cone of the same radius. If the height of the cylindrical part is 6 m and slant height of the conical part is 10 m, how much canvas will be required to build the tent? Allow 20% extra canvas for folding and stitching. (Take $\pi = 22/7$)

- (a) 829.72 sq mts
- (b) 414.86 sq mts
- (c) 1244.58 sq mts
- (d) 207.43 sq mts

Q25. The measures of the four angles of a quadrilateral are in the ratio 1:2:3:4. What is the measure of the biggest angle?

- (a) 36°
- (b) 144°
- (c) 72°
- (d) 108°

Q26. If the selling price is Rs 2125 after getting a discount of 15% what was the marked price?

- (a) Rs 2443.75
- (b) Rs 1806.25
- (c) Rs 1847
- (d) Rs 2500

Q27. Mandeep works 3 times as fast as Sampat. If Sampat can complete a job alone in 60 days, then in how many days can they together finish the job?

- (a) 7 days
- (b) 4 days
- (c) 5 days
- (d) 15 days

Q28. The third proportional of two numbers 4 and 20 is

- (a) 36
- (b) 40
- (c) 100
- (d) 60

Q29. In a class of 50 students there are 27 girls. The average weight of these girls is 45 kg and average weight of the full class is 49.6 kgs. What is the average weight of the boys of the class?

- (a) 55
- (b) 54.2
- (c) 53.4
- (d) 53

Q30. Rehman goes on a trip on his motor-cycle and rides for 661 kms. If he rides for 8 hours at a speed of 31 km/hr, find at what speed he travels for the remaining 7 hours of the journey?

- (a) 50 km/hr
- (b) 42 km/hr
- (c) 53 km/hr
- (d) 59 km/hr

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