

## Quantitative Aptitude for RRB NTPC

Q1. The Government reduced the price of sugar by 10 percent. By this a consumer can buy 6.2 kg more sugar for Rs. 837. The reduced price per kg of sugar is

- (a) Rs. 12.50
- (b) Rs. 13.00
- (c) Rs. 13.50
- (d) Rs. 14.00

Q2. A person invests money in three different schemes for 6 years, 10 years and 12 years at 10 percent, 12 percent and 15 percent simple interest respectively. At the completion of each scheme, he gets the same interest. The ratio of his investments is

- (a) 6 : 3 : 2
- (b) 2 : 3 : 4
- (c) 3 : 4 : 6
- (d) 3 : 4 : 2

Q3. Compound interest of a sum of money for 2 years at 4 percent per annum is Rs. 2,448. Simple interest of the same sum of money at the same rate of interest for 2 years will be

- (a) Rs. 2,500
- (b) Rs. 2,400
- (c) Rs. 2,360
- (d) Rs. 2,250

Q4. The difference between compound interest and simple interest of a sum for 2 years at 8 percent is Rs. 768. The sum is

- (a) Rs. 1,00,000
- (b) Rs. 1,10,000
- (c) Rs. 1,20,000
- (d) Rs. 1,70,000

Q5. If the average of  $m$  numbers is  $n^2$  and that of  $n$  numbers is  $m^2$ , then average of  $(m + n)$  numbers is

- (a)  $m/n$
- (b)  $m + n$
- (c)  $mn$
- (d)  $m - n$

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**Q6.** X has twice as much money as that of Y and Y has 50% more money than that of Z. If the average money of all of them is Rs. 110, then the money, which X has, is

- (a) Rs. 55
- (b) Rs. 60
- (c) Rs. 90
- (d) Rs. 180

**Q7.** The average age of 30 students is 9 years. If the age of their teacher is included, the average age becomes 10 years. The age of the teacher (in years) is

- (a) 27
- (b) 31
- (c) 35
- (d) 40

**Q8.** If the average weight of 6 students is 50 kg; that of 2 students is 51 kg; and that of 2 students is 55 kg; then the average weight of all students is

- (a) 61 kg
- (b) 51.5 kg
- (c) 52 kg
- (d) 51.2 kg

**Q9.** From a class of 24 boys, a boy, aged 10 years, leaves the class and in his place a new boy is admitted. As a result, the average age of the class is increased by 2 months. What is the age of the new boy?

- (a) 12 years
- (b) 15 years
- (c) 14 years
- (d) 13 years

**Q10.** If the radius of a right circular cylinder is decreased by 50% and its height is increased by 60%, its volume will be decreased by

- (a) 10%
- (b) 60%
- (c) 40%
- (d) 20%

**Q11.** A box contains Rs. 56 in the form of coins of one rupee, 50 paise and 25 paise. The number of 50 paise coins is double the number of 25 paise coins and four times the number of one rupee coins. How many 50 paise coins are there in the box?

- (a) 52
- (b) 64
- (c) 32
- (d) 16

Q12. Rs. 1740 is divided among A, B and C such that  $0.5 \text{ of } A = 0.6 \text{ of } B = 0.75 \text{ of } C$ . Then C will get

- (a) Rs. 580
- (b) Rs. 696
- (c) Rs. 348
- (d) Rs. 464

Q13. A certain amount of money is divided among x, y and z. If x receives 25% more than y and y receives 25% less than z, then  $x : y : z$  is equal to

- (a) 14 : 12 : 13
- (b) 15 : 12 : 16
- (c) 10 : 9 : 12
- (d) 12 : 10 : 11

Q14. A sum of Rs. 300 is divided among P, Q and R in such a way that Q gets Rs. 30 more than P and R gets Rs. 60 more than Q. The ratio of their shares is

- (a) 5 : 3 : 2
- (b) 2 : 3 : 5
- (c) 3 : 2 : 5
- (d) 2 : 5 : 3

Q15. Two equal glasses filled with alcohol and water in the proportions 2 : 1 and 3 : 2 are emptied into a third glass. The proportion of alcohol and water in the third glass will be

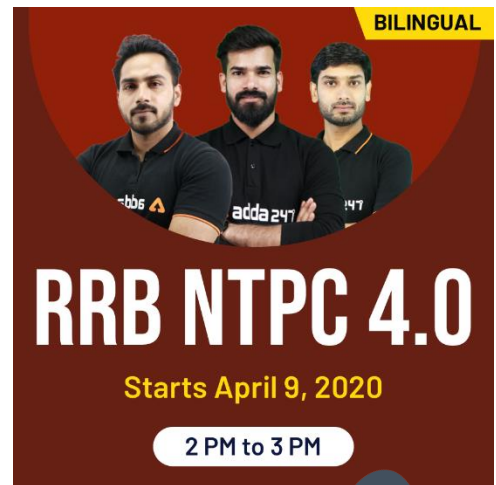
- (a) 13 : 17
- (b) 19 : 17
- (c) 13 : 11
- (d) 19 : 11

Q16. In a factory the salary of each worker is increased in the ratio 22 : 25 but the number of workers is decreased by  $26\frac{2}{3}\%$ . The net effect on the salary is:

- (a)  $16\frac{2}{3}\%$  Less
- (b)  $11\frac{1}{9}\%$  Less
- (c) 10% Less
- (d) 20 % Less

Q17. A bag has Rs 20 in the form of 1rupee, 50paise and 10paise coins in the ratio of 2:3:5. Find the number of 50paise coins.

- (a) 25
- (b) 10
- (c) 15
- (d) 5



Q18. In a class of 60 students there are 33 girls. The average weight of these girls is 62 Kg and average weight of the full class is 66.5 kg. What is the average weight of the boys of the class?

- (a) 72 kg
- (b) 71 kg
- (c) 70 kg
- (d) 73 kg

Q19. When a number is increased by 32, it becomes 116% of itself. What is the number?

- (a) 384
- (b) 480
- (c) 200
- (d) 288

Q20. If the sum of the measures of all the interior angles of polygon is  $1800^\circ$ , find the number of sides of the polygon?

- (a) 12
- (b) 14
- (c) 16
- (d) 8

Q21. The length of tangent drawn from an external point P to a circle of radius 5 cm. is 12 cm. The distance of P from the center of the circle is:

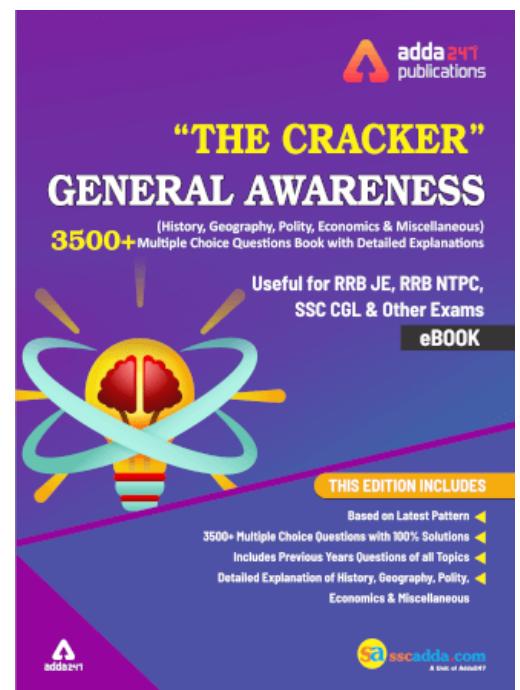
- (a) 12 cm
- (b) 9 cm
- (c) 7 cm
- (d) 13 cm

Q22. The length of two parallel chords of a circle of radius 5 cm are 6 cm and 8 cm in the same side of the center. The distance between them is?

- (a) 1 cm
- (b) 2 cm
- (c) 3 cm
- (d) 1.5 cm

Q23. AB is the diameter of a circle with center O. P be a point on it. If  $\angle POA = 120^\circ$ . Then,  $\angle PBO = ?$

- (a)  $60^\circ$
- (b)  $50^\circ$
- (c)  $120^\circ$
- (d)  $45^\circ$



Q24. In the given figure, PAB is a secant and PT is a tangent to the circle from P. If  $PT = 5$  cm,  $PA = 4$  cm and  $AB = x$  cm, then  $x$  is

- (a)  $4/9$  cm
- (b)  $2/3$  cm
- (c)  $9/4$  cm
- (d) 5 cm

Q25. Two circles with their centers at O and P and radii 8 cm and 4 cm respectively touch each other externally. The length of their common tangent is

- (a) 8 cm
- (b) 8.5 cm
- (c)  $8\sqrt{2}$  cm
- (d)  $8\sqrt{3}$  cm

Q26. AB is a diameter of a circle with center O. The tangents at C meets AB produced at Q. If  $\angle CAB = 34^\circ$ , then measure of  $\angle CBA$  is

- (a)  $56^\circ$
- (b)  $68^\circ$
- (c)  $34^\circ$
- (d)  $124^\circ$

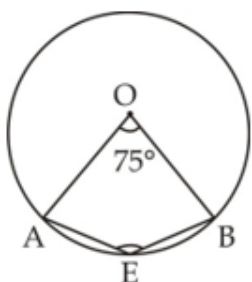
Q27. If PA and PB are two tangents to a circle with center O such that  $\angle AOB = 110^\circ$ , then  $\angle APB$  is

- (a)  $90^\circ$
- (b)  $70^\circ$
- (c)  $60^\circ$
- (d)  $55^\circ$

Q28. The length of a tangent from an external point to a circle is  $5\sqrt{3}$  unit. If radius of the circle is 5 units, then the distance of the point from the center of the circle is?

- (a) 12 units
- (b) 15 units
- (c) 10 units
- (d) 11 units

Q29. In the given figure, O is the center of the circle and  $\angle AOB = 75^\circ$ , then  $\angle AEB$  will be?



- (a) 142.5
- (b) 162.5
- (c) 132.5
- (d) 122.5

Q30. In a circle, center angle is  $120^\circ$ . Find the ratio of major angle and minor angle?

- (a) 2:7
- (b) 2:1
- (c) 2:9
- (d) 2:3

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