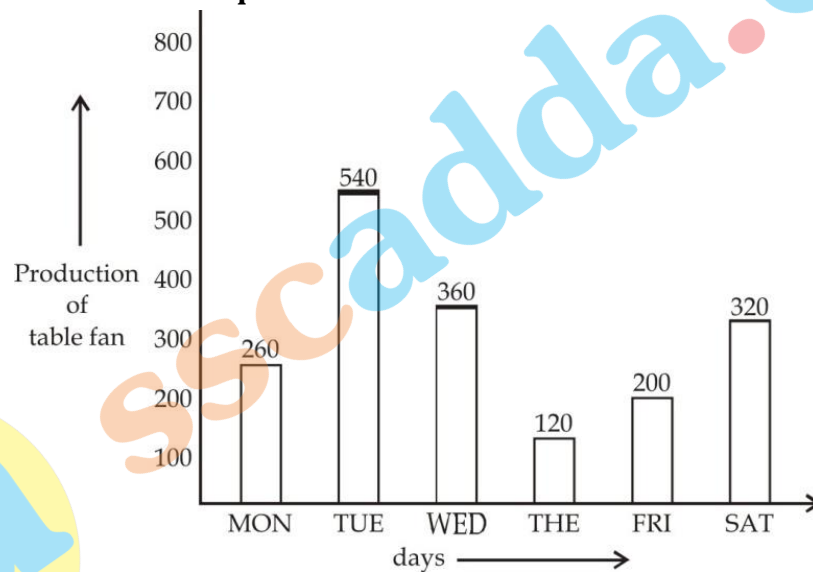


Quant Mega Quiz for RRB NTPC

Q1. If  $\tan \theta = \frac{8}{15}$ , the value of  $\frac{\sqrt{1-\sin \theta}}{\sqrt{1+\sin \theta}}$  is :

- (a)  $\frac{1}{5}$
- (b)  $\frac{2}{5}$
- (c)  $\frac{3}{5}$
- (d) 0

Directions (2-5): The bar graph shows the production of table fans in a factory during one week. Study the bar graph and answer the question.




Q2. The maximum production exceeds the minimum production by:

- (a) 400
- (b) 420
- (c) 500
- (d) 540

Q3. The average production of table fan in that week is:

- (a) 370
- (b) 280
- (c) 300
- (d) 250

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**Q4. Ratio of the total production of table fans in the factory from Monday to Wednesday to that from Thursday to Saturday is:**

- (a) 19 : 26
- (b) 26 : 19
- (c) 29 : 16
- (d) 16 : 29

**Q5. The average production of table fans on Monday & Tuesdays exceeds the average production of table fans during the week by:**

- (a) 150 fans
- (b) 100 fans
- (c) 140 fans
- (d) 200 fans

**Q6. The unit digit in  $3 \times 38 \times 537 \times 1256$  is**

- (1) 4
- (2) 2
- (3) 6
- (4) 8

**Q7. The third proportional of 12 and 18 is**

- (1) 3
- (2) 6
- (3) 27
- (4) 144

**Q8. If Rs.126.5 is divided among A, B, and C in the Ratio of 2:5:4, the share of B exceeds that of A by**

- (a) Rs.36.50
- (b) Rs.35.50
- (c) Rs.34.50
- (d) Rs.33.50

**Q9. If the sum and difference of two numbers are 20 and 8 respectively, then the difference of their squares is:**

- (1) 12
- (2) 28
- (3) 80
- (4) 160

**Q10. Two numbers are in the ratio 2 : 3. If 2 is subtracted from the first and 2 is added to the second, the ratio becomes 1 : 2. The sum of the numbers is :**

- (1) 30
- (2) 28
- (3) 24
- (4) 10

**Q11. The area of a circle is  $441\pi$  square cm. The length of its longest chord (in cm.) is**

- (a) 32
- (b) 42
- (c) 21
- (d) 28

**Q12. Average of 13 numbers is 9 if the average of first 7 numbers be 7.5 and the average of last 7 numbers be 10.8. then the middle number?**

- (a) 13.3
- (b) 14.4
- (c) 11.1
- (d) 15.5

**Q13. The average of prime numbers between 1 to 30 is**

- (a) 12.9
- (b) 12.2
- (c) 13.4
- (d) 14.4

**Q14. If  $x : y = \frac{2}{7} : \frac{9}{14}$  and  $z : y = \frac{5}{2} : \frac{2}{3}$ . Then find  $x : z$ ?**

- (a) 135 : 16
- (b) 3 : 5
- (c) 16 : 135
- (d) 5 : 3

**Q15. There is a ratio of 8 : 9 between two numbers if 20 percent of the first is 40. The 10% of the second number is**

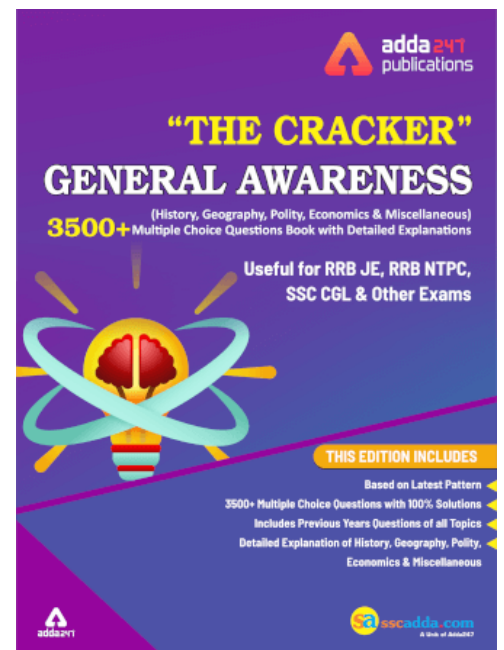
- (a) 15.2
- (b) 12.5
- (c) 22.5
- (d) 14.2

**Q16. How much  $22\frac{2}{9}\%$  of Rs. 171 exceeds Rs. 30 ?**

- (a) 4
- (b) 8
- (c) 32
- (d) None of these

**Q17. If there is a profit of 15% on the selling price of the article. Find real profit percent.**

- (a) 15%
- (b)  $15\frac{11}{17}\%$
- (c)  $17\frac{11}{17}\%$
- (d) 20%



**Q18. A single discount equivalent to the successive discounts of 20%, 15% and 5% is**

- (a) 35.4%
- (b) 32%
- (c) 40%
- (d) can't be determined

**Q19. At what rate per annum will Rs. 3200 yield compound interest of Rs. 504.4 in 9 months interest being compound quarterly?**

- (a) 20%
- (b) 32%
- (c) 50%
- (d) 80%

**S20. A, B and C can do a piece of work in 60 day, A and B in 72 day find the day in which C alone can complete half of the work.**

- (a) 120 days
- (b) 180 days
- (c) 145 days
- (d) 360 days

**Q21. The difference between 90% of a number and 83% of the same number is 175. What is 99% of that number?**

- (a) 2420
- (b) 2475
- (c) 2500
- (d) 1750

**Q22. Two cones have their heights in the ratio 1:3 and the radii of their bases in the ratio 3:1. Find the ratio of their volumes?**

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

**Q23. Ram, Karan and Rohan invested capital in the ratio of 2:3:4 for time period of 6:4:3. Find the ratio of profit distributed?**

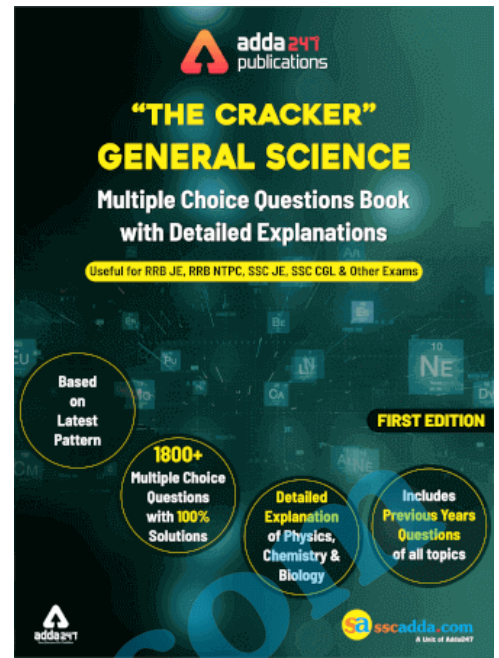
- (a) 12:13:14
- (b) 13:12:14
- (c) 13:14:12
- (d) None of these

Q24. A sum of money becomes triple itself in 16 years. In how many years will it become 5 times at the same rate?

- (a) 32
- (b) 15
- (c) 27
- (d) 30

Q25. The compound interest on Rs.30,000 at 7% per annum is Rs. 4347. The period (in years) is:

- (a) 2
- (b)  $2\frac{1}{2}$
- (c) 3
- (d) 4



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