Aptitude questions

1. What is the unit digit of 2512^{51}251?
   a) 2
   b) 4
   c) 8
   d) 6

2. A train 180 meters long is running at a speed of 54 km/hr. How much time will it take to cross a pole?
   a) 10 sec
   b) 12 sec
   c) 15 sec
   d) 18 sec

3. The sum of two numbers is 80, and their difference is 20. Find the numbers.
   a) 50, 30
   b) 60, 20
   c) 55, 25
   d) 70, 10

4. What is 40% of 200?
   a) 20
   b) 40
   c) 80
   d) 100

5. A man buys an article for ₹500 and sells it for ₹700. What is the profit percentage?
   a) 30%
   b) 40%
   c) 50%
   d) 60%

6. The ratio of two numbers is 3:5. If their sum is 64, find the numbers.
   a) 24, 40
   b) 18, 46
   c) 16, 48
   d) 28, 36

7. The LCM of 12, 15, and 20 is:
   a) 120 b) 180 c) 240 d) 300

8. What is the square root of 324?
   a) 16
   b) 18
   c) 20
   d) 22

9. A shopkeeper increases the price of an item by 25%. By what percentage should he decrease it to restore the original price?
   a) 20%
   b) 22%
   c) 25%
   d) 30%

10. If the average of 4, 8, 12, 16, and x is 10, find x.
    a) 5
    b) 10
    c) 15
    d) 20

11. A and B can complete a work in 12 days and 18 days, respectively. How long will they take to complete the work together?
    a) 6 days
    b) 7.2 days
    c) 8 days
    d) 9 days

12. A person travels 90 km at 30 km/hr and returns at 60 km/hr. Find the average speed.
    a) 40 km/hr
    b) 45 km/hr
    c) 48 km/hr
    d) 50 km/hr

13. If 10 men can complete a task in 20 days, how long will 5 men take to complete the same task?
    a) 10 days
    b) 20 days
    c) 40 days
    d) 50 days

14. Two pipes A and B can fill a tank in 10 min and 15 min, respectively. If both pipes are opened together, in how many minutes will the tank be full?
    a) 5 min b) 6 min
    c) 8 min d) 9 min

15. A car covers a distance of 240 km in 4 hours. What is its speed?
    a) 40 km/hr
    b) 50 km/hr
    c) 60 km/hr
    d) 70 km/hr

16. If 6 people complete a work in 12 days, how many people are needed to complete it in 4 days?
    a) 12
    b) 18
    c) 20
    d) 24

17. A train running at 72 km/hr crosses a bridge in 50 seconds. If the length of the train is 200 meters, find the length of the bridge.
    a) 400 m
    b) 600 m
    c) 800 m
    d) 1000 m

18. A sum of money doubles itself in 5 years at simple interest. What is the rate of interest?
    a) 10%
    b) 15%
    c) 20%
    d) 25%

19. A 20% increase followed by a 20% decrease in a number results in:
    a) No change
    b) 4% decrease
    c) 4% increase
    d) 10% decrease

20. If 5 men can do a job in 15 days, how many men are required to do it in 5 days?
    a) 10
    b) 15
    c) 20
    d) 25

21. Find the missing number in the sequence: **2, 6, 12, 20, ?, 42**
   a) 24
   b) 30
   c) 32
   d) 36

22. If A is taller than B and B is taller than C, who is the tallest?
   a) A
   b) B
   c) C
   d) Cannot be determined

23. If in a certain code, **TABLE** is written as **GZYOV**, how is **CHAIR** written?
   a) SXZRI
   b) XZSRH
   c) SXRZH
   d) XZRSH

24. **What comes next?**
   1, 4, 9, 16, 25, ?
   a) 30
   b) 36
   c) 42
   d) 49

25. Find the odd one out:
   a) Apple
   b) Banana
   c) Tomato
   d) Mango

26. The probability of getting a head when tossing a coin is:
   a) 1
   b) 0.5
   c) 0.25
   d) 2

27. A bag contains 5 red, 3 blue, and 2 green balls. What is the probability of drawing a red ball?
   a) 1/2
   b) 1/5
   c) 1/3
   d) 1/10

28. A shopkeeper sells 2 items for ₹500 each, one at a gain of 20% and the other at a loss of 20%. What is the overall profit or loss?
   a) 4% profit
   b) 4% loss
   c) No profit, no loss
   d) 10% loss

29. A person spends 30% of his income on rent, 40% on household expenses, and saves the rest. If his total income is ₹50,000, how much does he save?
   a) ₹10,000
   b) ₹12,000
   c) ₹15,000
   d) ₹20,000

30. If a number is increased by 25% and then decreased by 20%, the final result is:
   a) 5% increase
   b) 5% decrease
   c) No change
   d) 10% decrease

Answer Key

1. **d**
2. **b**
3. **a**
4. **c**
5. **c**
6. **a**
7. **a**
8. **b**
9. **a**
10. **c**
11. **b**
12. **a**
13. **c**
14. **b**
15. **c**
16. **b**
17. **b**
18. **c**
19. **b**

20. **c**
21. **c**
22. **a**
23. **d**
24. **b**
25. **c**
26. **b**
27. **c**
28. **b**
29. **a**
30. **a**