

Here are 50 aptitude questions commonly asked in technical interviews, covering topics such as mathematics, logic, reasoning, and problem-solving:

### 1. Mathematical Aptitude

1. What is the value of  $(3+5) \times 2(3+5) \times 2$ ?
2. Find the area of a circle with a radius of 7 cm.
3. If the sum of two numbers is 24 and their difference is 4, what are the numbers?
4. A car travels 120 km in 2 hours. What is its speed?
5. Find the square root of 256.
6. If  $3x + 4 = 19$ , what is the value of  $x$ ?
7. A train travels 50 miles in 1 hour and 30 minutes. What is its average speed?
8. The sum of the ages of two people is 60 years. One is 4 years older than the other. What are their ages?
9. A shopkeeper sells an item for \$150 that cost him \$100. What is his profit percentage?
10. If a person invests \$1000 at 10% interest compounded annually, how much will the investment be worth in 3 years?

### 2. Number Series and Sequences

11. What is the next number in the series: 2, 6, 12, 20, \_\_?
12. Find the missing number in the series: 5, 10, 15, \_\_, 25, 30.
13. What is the sum of the first 100 natural numbers?
14. What is the next number in the sequence: 1, 1, 2, 3, 5, 8, \_\_?
15. What is the next term in the sequence: 3, 9, 27, 81, \_\_?

### 3. Percentages

16. If the price of a book is increased by 20% and then decreased by 10%, what is the net percentage change?
17. A product was originally priced at \$500. After a 15% discount, what is the new price?
18. If the population of a town increases by 5% annually, what will be the population after 2 years if it is currently 10,000?
19. A person scored 60% on a test with 50 questions. How many questions did he answer correctly?
20. What is 15% of 200?

### 4. Profit and Loss

21. A seller buys an item for \$200 and sells it for \$250. What is his profit percentage?

22. A person bought 12 articles for \$1800 and sold them for \$2000. What is the overall profit percentage?
23. A shopkeeper gives a 20% discount on a product and still makes a 10% profit. What is the cost price of the product?
24. If an item is sold at a 25% loss for \$300, what was the cost price?
25. A person sold a chair for \$100, making a profit of 20%. What was the cost price?

#### **5. Time, Speed, and Distance**

26. A train travels 120 miles in 2 hours. What is its speed?
27. If two cars start at the same point and travel in opposite directions at speeds of 60 km/h and 80 km/h, how long will it take for them to be 280 km apart?
28. A cyclist travels at 15 km/h. How far will the cyclist travel in 30 minutes?
29. A man walks 5 km/hr and cycles at 15 km/hr. How long will it take him to cover a distance of 30 km?
30. If a person walks at a speed of 4 km/hr and runs at 8 km/hr, how long will it take him to cover 12 km if he walks for 4 km and runs for the rest?

#### **6. Time and Work**

31. If a person can complete a task in 6 hours, how long will it take him to complete half of the task?
32. If 5 workers can complete a task in 10 days, how many days will 8 workers take to complete the same task?
33. A machine can produce 50 units per hour. How long will it take to produce 1000 units?
34. A man can finish a work in 8 days. How long will it take for 4 men to finish the same work?
35. If 2 workers can complete a task in 12 hours, how long will 3 workers take to complete the task?

#### **7. Ratios and Proportions**

36. What is the ratio of 25 to 40?
37. If the ratio of A to B is 3:4, and the ratio of B to C is 2:5, what is the ratio of A to C?
38. A car travels 80 km in 2 hours. Another car travels 120 km in 3 hours. What is the ratio of their speeds?
39. The cost of 5 pens is \$10. How much will 12 pens cost?
40. If 3 workers can complete a task in 7 days, how many days will 5 workers take to complete the same task?

#### **8. Simple and Compound Interest**

41. If \$1000 is invested at 10% simple interest, what will be the amount after 3 years?
42. What will be the compound interest on \$1000 for 2 years at a rate of 5% per annum?
43. A sum of money amounts to \$2000 in 2 years at 10% compound interest. What was the principal?
44. If a sum of money is invested at 12% per annum compound interest, how long will it take for the sum to double?
45. What is the simple interest on \$5000 at 6% per annum for 4 years?

## **9. Probability**

46. What is the probability of rolling a 5 on a fair 6-sided die?
47. In a deck of 52 cards, what is the probability of drawing a red card?
48. If a coin is flipped 3 times, what is the probability of getting exactly two heads?
49. In a class of 30 students, 18 are boys and 12 are girls. What is the probability of selecting a girl at random?
50. What is the probability of getting an even number when a fair die is rolled?

These aptitude questions cover a wide range of topics that are often tested in competitive exams and technical interviews. Practicing these questions will help you improve your reasoning, analytical skills, and problem-solving abilities.