WIPRO SYLLABUS

WIPRO APTITUDE SYLLABUS:-

- LCM & HCF
- Divisibility
- Numbers, decimal fractions, and power
- Time & Work
- Pipes and Cisterns
- Averages
- Profit and Loss
- Simple and Compound Interest
- Time, Speed, and Distance
- Problems on Trains
- Geometry, Coordinate Geometry
- Clocks & Calendar
- Logarithms

- Permutation and Combinations
- Probability
- Ratio & Proportion
- Algebra
- Surds & Indices
- Allegations and Mixtures
- Problem on Ages

WIPRO REASONING SYLLABUS:-

- Coding deductive logic
- Blood Relation
- Directional Sense
- Objective Reasoning
- Selection decision tables
- Seating Arrangements
- Mathematical Orders
- Inferred Meaning
- Logical word sequence
- Data sufficiency
- Syllogism
- Data Arrangement

WIPRO CODING TEST PATTERN:-

Wipro coding questions range from **easy to difficult level**.

Out of the 2 questions asked in Wipro coding test, one is easy and the other is slightly difficult. You need to answer a minimum of 1 question, to clear the cut off.

But in certain cases, if a lot of students have cleared all test cases for both the questions, then the cutoff might vary accordingly.

WIPRO WRITING TEST PATTERN:-

Based on Topic provided you need to write the passage with minimun 200 words.

MODEL PAPER:-

Section 1: Quantitative Aptitude

1. LCM and HCF:

Find the LCM of 24, 36, and 48.

(A) 72 (B) 96 **(C) 144** (D) 120

2. Probability:

A bag contains 4 red, 5 blue, and 6 green balls. What is the probability of drawing a red ball?

(A) 2/5 **(B) 4/15** (C) 1/3 (D) 3/5

3. Logarithms:

If $\log_2(8) = x$, what is the value of x?

(A) 1 (B) 2 **(C) 3** (D) 4

4. Time and Work:

If A and B together can complete a work in 12 days, and B alone can do it in 20 days, how long will A take to complete the work alone?

(A) 30 days **(B) 24 days** (C) 20 days (D) 15 days

5. Simple and Compound Interest:

Find the compound interest on ₹10,000 for 2 years at a rate of 5% per annum, compounded annually.

(A) ₹1,025 (B) ₹1,050 (C) ₹1,100 (D) ₹1,125

6. Time, Speed, and Distance:

A train running at 72 km/h crosses a platform in 45 seconds. If the length of the train is 150 meters, find the length of the platform.

(A) 600 m (B) 750 m **(C) 900 m** (D) 450 m

7. Ratio and Proportion:

The ratio of the ages of two persons is 4:5. If the sum of their ages is 45, what is the age of the elder one?

(A) 20 years **(B) 25 years** (C) 30 years (D) 35 years

8. Profit and Loss:

A shopkeeper sells an item for ₹2,400 at a profit of 20%. What was the cost price of the item?

(A) ₹1,800 **(B) ₹2,000** (C) ₹2,200 (D) ₹2,500

9. Geometry:

The area of a rectangle is 48 cm^2, and its length is 8 cm. Find its width.

(A) 4 cm (B) 5 cm **(C) 6 cm** (D) 8 cm

10. Permutation and Combination:

In how many ways can the letters of the word "MANGO" be arranged?

(A) 60 **(B) 120** (C) 240 (D) 360

Section 2: Logical Reasoning:-

11. Blood Relations:

A is the father of B. B is the mother of C. How is A related to C?

(A) Grandfather (B) Father (C) Uncle **(D) Brother**

12. Coding-Decoding:

If in a certain language, "ORANGE" is coded as "621459", then how is "MANGO" coded?

(A) 51432 (B) 51243 **(C) 52143** (D) 54132

13. Number Series:

Find the missing number in the series: 2, 6, 12, 20, __, 42

(A) 26 (B) 30 (C) 32 **(D) 36**

14. Syllogism:

Statements:

- All pens are books.
- Some books are tables.

Conclusion:

I. Some pens are tables.

II. Some books are pens.

(A) Only I follows **(B) Only II follows** (C) Both follow (D) Neither follows

15. Seating Arrangement:

A, B, C, D, and E are sitting in a row. B is to the right of A, but to the left of C. D is to the right of C. Who is sitting at the extreme right?

(A) A (B) B (C) D **(D) E**

16. Direction Sense:

A person walks 3 km north, then turns east and walks 4 km. How far is he from the starting point?

(A) 5 km (B) 7 km (C) 6 km (D) 4 km

17. Analogies:

Find the missing term:

Cat : Kitten :: Dog : ?

(A) Puppy (B) Cub (C) Calf (D) Foal

18. Statement & Conclusion:

Statement: "All successful people are hardworking."

Conclusion:

I. Hardworking people are successful.

II. Some successful people are not hardworking.

(A) Only I follows (B) Only II follows (C) Both follow (D) Neither follows

19. Odd One Out:

Find the odd one out:

(A) 27 (B) 64 (C) 125 **(D) 144**

20. Logical Sequence:

Which of the following comes next in the sequence?

AB, CD, EF, GH, __

(A) IJ (B) KL (C) MN (D) OP

Section 3: Verbal Ability:

21. Sentence Correction:

Choose the correct sentence:

(A) He is good in mathematics.

(B) He is good at mathematics.

(C) He is good by mathematics.

(D) He is good on mathematics.

22. Synonyms:

Choose the synonym of “Eloquent.”

(A) Silent

(B) Persuasive

(C) Confused

(D) Unclear

23. Reading Comprehension:

Read the passage and answer the question. (Passage provided)

What is the main idea of the passage?

(A) The importance of teamwork

(B) The need for advanced technology

(C) The impact of social media

(D) The role of leadership

24. Spot the Error:

Find the incorrect part in the sentence:

“She didn’t knew that the train had already left.”

(A) She didn’t knew

(B) that the train

(C) had already left

(D) No error

25. Fill in the Blanks:

The scientist is working on a new __ to solve the problem.

(A) solution

(B) research

(C) discovery

(D) invention

CODING QUESTION MODEL:-

Problem Statement

Alex works at a clothing store. There is a large pile of socks that must be paired by color for sale. Given an array of integers representing the color of each sock, determine how many pairs of socks with matching colors there are.

For example, there are **n=7** socks with colors **ar = {1,2,1,2,1,3,2}**. There is one pair of color **1** and one of color **2**. There are three odd socks left, one of each color. The number of pairs is **2**.

Function Description

Complete the **sockMerchant** function in the editor below. It must return an integer representing the number of matching pairs of socks that are available.

sockMerchant has the following parameter(s):

n: the number of socks in the pile

ar: the colors of each sock

Input Format

The first line contains an integer **n**, the number of socks represented in **ar.**
The second line contains **n** space-separated integers describing the colors **ar[i]** of the socks in the pile.

Constraints

1 <= n <= 100
1 <= ar[i] <= 100 & 0 <= i < n

Output Format

Return the total number of matching pairs of socks that Alex can sell.

Sample Input

9

10 20 20 10 10 30 50 10 20

Sample Output

3

Explanation

Alex can match 3 pairs of socks i.e **10-10, 10-10, 20-20**

while the left out socks are **50, 60, 20**

WIPRO TOP 10 CODING QUESTIONS IN EASY LEVEL:-

1. Reverse a String

Write a program to reverse a string.

2. Find Factorial of a Number

Write a program to find the factorial of a given number.

3. Prime Number Check

Write a program to check if a given number is prime or not.

4. Fibonacci Sequence

Write a program to print the Fibonacci sequence up to a given number.

5. Sum of Digits Write a program to find the sum of digits of a given number.

6. Palindrome Check

Write a program to check if a given string is a palindrome or not.

***7.* Count Vowels and Consonants in a String**Write a program to count the number of vowels and consonants in a given string.

8. Find the Largest Number in an Array

Write a program to find the largest number in an array.

9. Calculate the Power of a Number

Write a program to calculate the power of a number using recursion.

10. Leap Year Check

Write a program to check whether a given year is a leap year or not.

WIPRO TOP 10 CODING QUESTIONS IN MEDIUM LEVEL:-

1. Merge Two Sorted Arrays

Write a program to merge two sorted arrays into a single sorted array.

2. Find Missing Number in Array

You are given an array of n-1 integers, where each integer is in the range from 1 to n. Write a program to find the missing number.

3. Anagram Check

Write a program to check whether two strings are anagrams of each other.

4. Matrix Multiplication

Write a program to multiply two matrices.

5. Remove Duplicates from Array

Write a program to remove duplicate elements from an array without using any extra space.

6. Rotate an Array

Write a program to rotate an array by a given number of positions.

7. Longest Substring Without Repeating Characters

Write a program to find the length of the longest substring without repeating characters in a string.

8. Spiral Matrix

Write a program to print the elements of a matrix in a spiral order.

9. Subset Sum Problem

Write a program to check if there is a subset of a given set with a sum equal to a given number.

10. Count Inversions in an Array

Write a program to count the number of inversions in an array. An inversion is a pair of indices (i, j) such that i < j and arr[i] > arr[j].

WIPRO TOP 10 CODING QUESTIONS IN HARD LEVEL:-

1. N-Queens Problem

Write a program to solve the N-Queens problem using backtracking. The problem is to place N queens on an NxN chessboard so that no two queens threaten each other.

2. Maximum Subarray Sum (Kadane's Algorithm)

Write a program to find the contiguous subarray within a one-dimensional numeric array which has the largest sum.

3. Longest Palindromic Substring

Write a program to find the longest palindromic substring in a given string.

4. Find All Prime Numbers (Sieve of Eratosthenes)

Write a program to find all prime numbers up to a given number using the Sieve of Eratosthenes algorithm.

5. Graph Traversal (DFS and BFS)

Write a program to implement Depth-First Search (DFS) and Breadth-First Search (BFS) on a graph.

6. Kth Largest Element in an Array

Write a program to find the kth largest element in an unsorted array.

7. Merge k Sorted Lists

Given k sorted linked lists, write a program to merge them into one sorted linked list.

8. Dynamic Programming - Longest Increasing Subsequence

Write a program to find the length of the longest increasing subsequence in an array using dynamic programming.

9. Subset Sum - DP Approach

Write a program to check if a subset with a given sum exists in a set of integers, using dynamic programming.

10. Find the Median of Two Sorted Arrays

Write a program to find the median of two sorted arrays of different sizes in O(log(min(n, m))) time complexity, where n and m are the sizes of the two arrays.

HR SAMPLE QUESTIONS:-

1. Why do you want to work with Wipro?
2. What are your strengths and weaknesses?
3. Where do you see yourself in 5 years?
4. Why should we hire you?
5. How do you handle stress and pressure?