

CLASS 10 – COMPUTER APPLICATIONS

BOARD-STYLE QUESTION PAPER

Time: 2 hours | Marks: 80

SECTION – A (40 Marks)

Attempt all questions.

Q1.

- a. Define wrapper class with an example.
- b. What is autoboxing?
- c. Output: Character.isDigit('5');
- d. Difference between parseInt() and valueOf().
- e. Primitive vs composite type.
- f. Why arrays are composite types?
- g. What is encapsulation?
- h. Default value of boolean array element?
- i. Length of int arr[][] = new int[3][4];
- j. Convert "HELLO" to "hello".

Q2.

- a. Name two wrapper classes.
- b. Output: Character.toLowerCase('A')
- c. Purpose of charAt()
- d. What is linear search?
- e. Max visibility access specifier.
- f. Prototype of substring with one index.
- g. Use of compareTo().
- h. Explain OOP.

i. Output: "India".startsWith("In")

j. Define 2D array.

Q3.

a. Explain autoboxing and unboxing.

b. Distinguish private vs protected, primitive vs class.

c. Difference: selection vs bubble sort.

d. Output of s.substring(3,7) for "computer".

e. Purpose: isLetter(), isWhitespace()

f. What is binary search?

g. Example: instance and local variable.

h. Explain valueOf() with example.

i. Define encapsulation.

j. Use of array length.

SECTION – B (40 Marks)

Attempt any 4.

Q4. Wrapper class program: count digits, uppercase, lowercase.

Q5. Arrays: selection sort + binary search.

Q6. 3x3 matrix: row sum, column sum, diagonals.

Q7. Strings: trim, uppercase, frequency of first char.

Q8. Student class with encapsulation.

Q9. String array: bubble sort + linear search.