C 23840 (Pages : 2) Name...

Reg. No.....................................

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2022

B.C.A.

BCA 2B 02—PROBLEM SOLVING USING C

(2019—2020 Admissions)

Time : Two Hours   Maximum : 60 Marks

Section A (Short Answer Type Questions)

*Answer **all** questions.*
Each question carries 2 marks.
Ceiling 20 marks.

1. What do you mean by the word token in C ?

2. How will you define global variables in C ?

3. Differentiate between ++a and a++ operation in C.

4. What are conditional operators ? Give an example.

5. Explain the difference between getchar() and gets() functions in C.

6. What is an if..else construct ? Explain its syntax.

7. Explain the use of continue statement in C.

8. What do you mean by function prototyping ?

9. Explain how a string variable is declared and initialized in C.

10. What is a structure variable ?

11. Explain how you will define a pointer to array in C.

12. Explain the use of free() function.

Section B (Short Essay Type Questions)

*Answer **all** questions.*
Each question carries 5 marks.
Ceiling 30 marks.

13. Explain the fundamental data types in C.

14. Give an account on operator precedence and its associativity.

Turn over

15. Define *for* loop. Explain the syntax of *for* loop with an example.

16. Write a C program to check whether the given number is prime or not.

17. Explain the different ways through which one dimensional array is declared and initialized in C.

18. Explain Array of Structure with suitable examples.

19. Explain Pointer to Function with an example.

Section C (Essay Type Questions)

Answer any **one** *question.*
Each question carries 10 *marks.*

20. What are the different categories of user defined functions in C ? Explain each one with suitable example.

21. Write a C program to copy the contents of one text file to another.

$(1 \times 10 = 10 \text{ marks})$