20U221 (Pages: 2) Name: .....

Reg.No: .....

SECOND SEMESTER B.Sc. CS/B.C.A. DEGREE EXAMINATION, APRIL 2021

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U BCS2 B02/CC19U BCA2 B02 - PROBLEM SOLVING USING C

(Computer Science - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer ***all*** question. Each question carries 2 marks.

1. What are the steps for executing a c program?
2. How will you define a symbolic constant?
3. Define Symbolic constants.
4. What is the difference between = and == operators?
5. What is the general form of printf statements?
6. Write any four functions contained in ctype.h.
7. Write a program to print the first 10 natural numbers.
8. How do you initialize a 2D array?
9. Differentiate structure and union.
10. Explain the use of pointer in accessing a character string.
11. What are the memory management functions in c.
12. How do you close the File?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** question. Each question carries 5 marks.

13. Write a detailed note about the structure of a C program with an example.

14. Explain different types of relational operators available in C.

15. Write a program to check whether a number is positive or negative.

16. Explain the syntax and working of Switch statement in C.

17. Explain different argument or parameter passing mechanisms in C.

18. Distingush between the scope and visibility of variables.

19. What is pointer ? How it is declared and accesses in C language ?

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. Each question carries 2 marks.

20. Briefly explain operators in C.

21. Discuss various string handling functions in C. Explain with examples.

(1 × 10 = 10 Marks)

****