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SECOND SEMESTER B.A./B.Sc. DEGREE EXAMINATION, APRIL 2020

(CBCSS-UG)

B.C.A.

BCA 2B 02—PROBLEM SOLVING USING C

(2019 Admissions)

Time: Two Hours

Maximum: 60 Marks

Section A (Short Answer Type Questions)

Answer all the questions.

Each question carries maximum of 2 marks.

Ceiling 20 marks.

- 1. Why and when do we use the #define directive?
- 2. What is a variable?
- 3. What would be the value of a after execution of the following statements? Explain.

int a, b = 23;

char c = 'a';

a = b + c;

- 4. What is comma (',') and size of operator?
- 5. Explain with example the precedence of operators in arithmetic operations.
- 6. Write a program to enter a number and carry out modular division operation by 2, 3 and 4 and display the remainders in good format.
- 7. Explain formatted input statements in C.
- 8. How can we use conditional operator? Explain.
- 9. What are the benefits of arrays?
- 10. Distinguish between structure and union.
- 11. Define user defined functions.
- 12. What are strings?

Turn over

Section B (Short Essay Type Questions)

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

- 13. Explain the different data types used in C. How could we extend the range of values of basic data types represent?
- 14. Write the general syntax and working of Switch statement in C Language.
- 15. What is sorting? Write a program in C language to sort an array using bubble sort.
- 16. What do you mean by scope of a variable? What are local and global variables? Give examples.
- 17. Write a C program to find the factorial of a given number using recursion. Explain.
- 18. What is the use of pointers? Discuss concept of declaration and initialization of pointers.
- 19. What is file? What are their advantages?

Section C (Essay Type Questions)

Answer any one question. Question carries 10 marks.

- (5 marks) a) Define character array. What is the use of character arrays? 20.
 - b) Write a program to find the sum of two matrices using user defined functions? Pass arguments.

(5 marks)

21. What are the different categories of function with suitable examples? (10 marks)