QP – 203

18

I Semester B.A./B.Sc. Examination, March/April 2022
(CBCS) (Repeaters) (2014-15 and Onwards)
COMPUTER SCIENCE – I
Programming Concepts Using 'C'

Time : 3 Hours

Max. Marks : 70

Instruction : *Answer **all** Sections.*

SECTION – A

I. Answer **any ten** questions. **Each** question carries **2** marks :   **(10×2=20)**

1) What is variable ? Show variable declaration and initialization.

2) Define algorithm and flowchart.

3) What is software ? Mention the types of software.

4) What is function ?

5) Give the differences between while loop and do while loop.

6) What is ternary operator ? Write the syntax.

7) Define array. Mention its types.

8) What is string ? List string related functions.

9) What is enum ?

10) Define pointer. Give example.

11) What is command line arguments ?

12) What is file ? What are the types of files ?

SECTION – B

II. Answer **any five** questions. **Each** question carries **10** marks :   **(5×10=50)**

13) a) List and explain the data types supported by C language.

    b) Write an algorithm and flowchart to find the biggest of 3 numbers.

14) a) With example explain bitwise operators.

    b) Explain break and continue statement.

15) a) What is recursive function ? Give example.

    b) Define a loop and write the differences between while and do while loop.

16) a) Explain storage classes.

    b) Explain static and dynamic memory allocation.

17) a) With example explain pointer to an array.

    b) Explain 2-dimensional array with example.

18) a) With example explain call by reference parameter passing mechanism.

    b) What is structure ? How to declare and initialize structure. Give example.

19) a) List and explain memory allocation function.

    b) Write a C program to create and implement user defined header file.

20) a) What are pre-processor directives ? Explain any 4 pre-processor directives.

    b) With example explain fopen() function.