



QP – 203

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.

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- 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.

## SECTION - B

(5x10=50)