

Common to B.Sc. Honours Computer Science Major, B.Sc. Honours Information Technology Major, B.Sc. Honours Data Science Major, B.Sc Honours Data Analytics Major, B.Voc Honours Data Science Major

**SEMESTER - I
COURSE 2: Problem Solving using C**

MODEL QUESTION PAPER

Time : 3 Hours

Max. Marks:70

**SECTION – A
Answer any FIVE of the following
(Marks: 5 x 4 marks = 20 marks)**

1. Differentiate Compiler and Interpreter.
2. Write the rules for constructing variable names.
3. Write about jump control statements.
4. What is an array? Write about types of arrays.
5. Write about character handling functions.
6. Explain about functions.
7. What is a pointer? Explain how to declare and initialize a pointer variable.
8. Explain how to access structure members with example.

**SECTION – B
Answer any FIVE of the following
(Marks: 5 x 10 marks = 50 marks)**

UNIT- I

9. (a) Explain the structure of C program with example.
Or
(b) Explain various operators in C.

UNIT - II

10. (a) Explain decision making statements with examples.
Or
(b) Explain loop control statements with examples.

UNIT - III

11. (a) Explain the Declaration, Initialization and Memory representation of One Dimensional Array with example.
Or
(b) What is a string? Explain string handling functions.

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UNIT - IV

12. (a) Explain parameter passing techniques with examples.
Or
(b) Explain storage classes in C.

UNIT - V

13. (a) Explain the differences between structure and union.
Or
(b) Explain Dynamic Memory Management functions.

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