

B.Sc.- I (CBCS Pattern) Semester-I
**USCST02 - Computer Science Paper-II - Programming Techniques &
Introduction to C**

P. Pages : 2

Time : Three Hours



GUG/W/24/11547

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat & labelled diagram wherever necessary
 3. Avoid vague answers and write the answers relevant and specific to questions only.

Either:

1. a) Explain in detail High Level Language. 5
- b) Write a note on: 5
- i) Interpreter ii) Assembler

OR

- c) What are the characteristics of good programming language? Explain. 5
- d) Explain in detail function oriented programming language. 5

Either:

2. a) Explain the following. 5
- i) Process Analysis. ii) Problem Analysis.
- b) Write an algorithm & draw a flowchart for finding simple interest. 5

OR

- c) What are the advantages of flow-chart? List the symbols used in flowchart with its description. 5
- d) Write an algorithm and draw a flow-chart to check given number is even or odd. 5

Either:

3. a) Write a note on: 5
- i) Increment and Decrement operator. ii) Relational operator.
- b) Explain any two data types used in 'C' languages with suitable example. 5

OR

- c) Write a short note on: 5
- i) Keyword ii) Identifier
- d) Explain with example 5
- i) Printf() ii) Scanf()

Either:

4. a) Explain “switch” statement with its syntax. 5
- b) Write a program in ‘C’ language to reverse a given number. 5

OR

- c) Explain nested for loop in brief. 5
- d) Write a program to generate following pattern. 5

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* * *
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5. Attempt **all** the questions.
- a) Write advantages of assembly language. 2½
- b) List the disadvantages of an algorithm. 2½
- c) Write a short note on Hierarchy of operators. 2½
- d) Explain ternary operator in short. 2½
