

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/23/11547

Max. Marks : 50

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

Either:

1. a) What is Assembly language? Also explain about it's translator. 5
- b) Explain different steps in compilation process. 5

OR

- c) Describe object based and event-based programming language. 5
- d) Write a note on- 5
 - i) Compiler
 - ii) Interpreter

Either:

2. a) Write advantages and disadvantages of an algorithm? 5
- b) Write an algorithm & draw a flowchart to find area of circle. 5

OR

- c) What is flow chart? Draw symbols used in flowchart with its purpose. 5
- d) Write an algorithm and draw a flowchart to calculate average of five numbers. 5

Either:

3. a) Explain relational operator with example. 5
- b) Write a program in 'C' to perform swapping of two numbers. 5

OR

- c) Explain with example- 5
 - i) Assignment operator
 - ii) Bitwise operator
- d) Explain logical operator with suitable example. 5

Either:

4. a) Write a note on nested if statement. 5
- b) Write a program to find the entered year is leap or not. 5

OR

- c) Explain the following statements- 5
- i) break
- ii) continue
- d) Write a program to find factorial of a given number using for loop. 5
5. Attempt all the questions.
- a) Explain the role of linker in short. 2½
- b) Write a short note on Process Analysis. 2½
- c) Write syntax, purpose and example of scanf() Function. 2½
- d) Write a note on comma operator. 2½
