

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

P. Pages : 2

Time : Three Hours



GUG/W/23/11547 (S)

Max. Marks : 50

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

Either :

1. a) Explain in detail Machine level language. 5
- b) Write a note on – 5
 - i) Linker
 - ii) Loader

OR

- c) Explain characteristics of good programming language. 5
- d) State the difference between compiler and interpreter. 5

Either :

2. a) Explain the term problem analysis and process analysis. 5
- b) What are the advantages and disadvantages of flowchart? 5

OR

- c) Write an algorithm to interchange the values of two variables. 5
- d) Explain complexity of an algorithm in detail. 5

Either :

3. a) Explain character set of 'C' in detail. 5
- b) Explain Input statements in 'C' with suitable example. 5

OR

- c) What do you mean by constant? Explain integer constant with example. 5
- d) Define variable. Write rules for declaring variables. 5

Either :

4. a) Explain two way conditional statement with suitable example. **5**
b) Write a 'C' program to check number is positive, negative or zero. **5**

OR

- c) Explain for loop with its syntax. **5**
d) Write a program in C to print numbers from 1 to 10 using while statement. **5**
5. Attempt all the questions.
- a) What is assembler? Explain. **2½**
b) Give advantages of an algorithm. **2½**
c) Write a short note on type casting. **2½**
d) Write a note on goto statement. **2½**
