

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

P. Pages : 1

Time : Three Hours



**GUG/W/22/11547**

Max. Marks : 50

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

Either:

1. a) Explain Machine Language in detail? 5  
b) Explain in compilation process. 5

**OR**

- c) Enlist advantages of Assembly language. 5  
d) Explain characteristics of good programming language. 5

Either:

2. a) Discuss conceptual development of solution. 5  
b) Explain complexity of algorithm with suitable example. 5

**OR**

- c) What is problem analysis? Explain. 5  
d) Explain any five symbols used in flowchart. 5

Either:

3. a) List the rules for naming variable names. 5  
b) What is type casting? Explain. 5

**OR**

- c) Explain primary data type used in C language. 5  
d) Explain arithmetic operator used in C language. 5

Either:

4. a) Distinguish between entry control loop and exit control loop. 5  
b) Write a program in C to print the numbers from 11 to 22. 5

**OR**

- c) Explain if – else statement with syntax and example. 5  
d) Write a program in C to perform addition of two numbers. 5

5. Attempt all the questions.
- a) Write a short note on Linker. 2½  
b) What is Flowchart? 2½  
c) Define constant with example. 2½  
d) Write a note on nested if 2½

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