

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

P. Pages : 1

Time : Three Hours



GUG/S/25/11547

Max. Marks : 50

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

Either:

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|----|----|--|---|
| 1. | a) | Explain in detail about translator. | 5 |
| | b) | Explain the role of linker and loader. | 5 |

OR

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|--|----|---|---|
| | c) | Explain the compilation process with suitable diagram. | 5 |
| | d) | Write in detail the characteristics of good programming language. | 5 |

Either:

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|----|----|--|---|
| 2. | a) | Explain the conceptual development of solution. | 5 |
| | b) | Write an algorithm for finding sum and average of 5 numbers. | 5 |

OR

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|--|----|--|---|
| | c) | Write the advantages and disadvantages of algorithm. | 5 |
| | d) | Draw a flowchart for checking year is leap or not. | 5 |

Either:

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|----|----|---|---|
| 3. | a) | Explain various data types available in 'C' in brief. | 5 |
| | b) | Write a 'C' program to find simple interest. | 5 |

OR

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|--|----|-----------------------------------|---|
| | c) | Explain logical operators in 'C'. | 5 |
| | d) | Write a note on: | 5 |
| | | i) Constant ii) Variable | |

Either:

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|----|----|---|---|
| 4. | a) | Explain in detail if-else statement. | 5 |
| | b) | Write a 'C' program to check number is even or odd. | 5 |

OR

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|--|----|--|---|
| | c) | Explain in detail for loop. | 5 |
| | d) | Write a 'C' program to check number is positive, negative or zero. | 5 |

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| 5. | Attempt all the questions. | | |
| | a) | Write a note on High level language. | 2½ |
| | b) | Write the disadvantages of flowchart. | 2½ |
| | c) | Discuss the Hierarchy of Arithmetic operator. | 2½ |
| | d) | Write a short note on comma operator. | 2½ |
