



Computer Programming (101105)

P. Pages : 2

Time : Three Hours

Max. Marks : 80

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any two** sub questions from each unit.
5. Diagram / sketches should be given whenever necessary.
6. Write proper comments for C and C++ programs.

UNIT – I

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|----------|---|---|
| 1. a) i) | Explain machine language with advantages & disadvantages. | 4 |
| ii) | Define following terms :
i) Compiler ii) Interpreter iii) linker iv) Editor | 4 |
| b) i) | Draw and explain different flow chart notations. | 4 |
| ii) | Write a 'C' language program for arithmetic operations. | 4 |
| c) i) | Write a program in C to demonstrate use of various data types in C. | 4 |
| ii) | Explain algorithm and properties of algorithm with example. | 4 |

UNIT – II

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|-------|--|---|
| 2. a) | Explain different C operators in detail. | 8 |
| b) i) | Explain nested if – else statement with example. | 4 |
| ii) | Write a program in C for displaying addition of 1 to 10 numbers by using for loop. | 4 |
| c) i) | Explain for loop with example. | 4 |
| ii) | Explain with syntax i) Break ii) go to statement. | 4 |

UNIT – III

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|-------|--|---|
| 3. a) | Define array. Explain one dimensional array declaration & initialization with its types. | 8 |
| b) | Write a program in C language to find the largest and smallest of n numbers using array. | 8 |
| c) i) | Explain different string handling function in C. | 4 |
| ii) | Write a program in C to find length of string without C library function. | 4 |

UNIT – IV

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|-------|---|---|
| 4. a) | Define function, explain with suitable example function declaration and function definition. | 8 |
| b) i) | Write a program in C language to find largest number among two numbers using function. | 4 |
| ii) | How can a structures member be accessed explain with example. | 4 |
| c) | Write a Algorithm, flowchart in C language program for student record processing using structure. | 8 |

UNIT – V

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|----------|---|---|
| 5. a) i) | Distinguish procedure oriented programming language and object oriented programming language. | 4 |
| ii) | Explain class and object with example. | 4 |
| b) | Explain the following terms : | |
| i) | data abstraction & Encapsulation. | 4 |
| ii) | Inheritance & polymorphism. | 4 |
| c) i) | Explain different access specifiers in C++. | 4 |
| ii) | Write a program in C++ checking given number is even / odd using class and object. | 4 |
