

Seat  
No.

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AOI1304

## 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. Answersheet 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. Write proper comments for C and C++ programs.
6. Diagrams / sketches should be given wherever necessary.
7. Use of logarithmic table, drawing instruments and non programmable calculators is permitted.

### UNIT - I

1. a) Explain assembly language and high level language with its advantages and disadvantages. 8  
b) Define flowchart. Give the symbols used in the flowchart with their meaning. 8  
c) Write an algorithm and a C program for swapping of two integer numbers. 8

### UNIT - II

2. a) Explain with example while loop and for loop. Also give their syntax. 8  
b) Write an algorithm and a C program for addition of first N natural numbers using any loop. 8  
c) Explain increment and decrement operators in C with example. Also write a program in C for finding largest of two integer numbers. 8

### UNIT - III

3. a) Write a program in C for addition and subtraction of two, two - dimensional matrices. 8

- b) Explain with syntax the standard C library functions for string. Also write a program in C to calculate the length of the string using standard C library function. 8
- c) Write a short note on arrays and its declaration. What are the types of arrays and the names of the operations performed on it. 8

#### UNIT - IV

4. a) What is function and function prototype ? Write a program in C to do the square of a number using function. 8
- b) What is structure ? Give the syntax for its declaration with example. Give the difference between array and structure. 8
- c) Write a program in C to read and print the information about book using structure. 8

#### UNIT - V

5. a) What is scope resolution operator ? What is its use ? Write a program in C++ for addition of two integer numbers using scope resolution operator. 8
- b) Write detail note on basic concepts of object oriented programming. 8
- c) Explain objects and classes in C++. Write a program in C++ for simple class and object. 8

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