

Instruction to Candidates:

- 1) Section - A is compulsory.
- 2) Attempt any Nine questions from Section - B.

Section - A

Q1) (15 x 2 = 30)

- a) What is difference between pseudo code and a flow chart?
- b) Define identifier? What are rules to write an identifier in C?
- c) What is difference between Actual arguments and formal arguments of a function?
- d) What are various types of operators in C language?
- e) What is the difference between break and continue statement?
- f) What is an Array? What is its advantage in programming?
- g) What is a structure? How it is different from a union?
- h) How can we use a pointer variable to access members of a structure?
- i) What do you mean by enumerated data type?
- j) What is difference between while and do...while statements?
- k) What are the features of C++ which were not supported in C?
- l) What is difference between an object and a class?
- m) What is the purpose of using destructors in a class?
- n) What is function overloading?
- o) What is a constructor?

Section - B

(9 x 5 = 45)

- Q2) What are various characteristics of an Object Oriented Programming?
- Q3) Write syntax of various control statements in C.
- Q4) Write a program to display name of day of a week corresponding to a number using switch statement.
- Q5) Draw a flow chart to find roots of a quadratic equation.
- Q6) Write a program to count the number of vowels in a character array.
- Q7) What can be various types of errors in a program?
- Q8) Write a program to swap values of two numbers using passing parameters by value and by reference.
- Q9) Write a program to read and display contents of an array using pointer to array.
- Q10) Write a program to overload the + operator to add contents of two structure variables.
- Q11) What is a virtual function? Explain the use of virtual functions.
- Q12) What is inheritance? What are its various types?
- Q13) How do we read data from files and write data to files in C language?