Time : 3 hrs.

Full Marks : 70

1x10=10

1. Answer any ten-
   a. Size of (float)= ?
   b. What is base type of an array.
   c. What is parameterized constructor ?
   d. What is functions signature ?
   e. What is a keyword ?
   f. In which header file fabs() function is include.
   g. What is cache memory.
   h. What is syntax error?
   i. What is abstract class ?
   j. What is static member function ?
   k. Define End user ?
   l. What is reference variable ?

2x10=20

2. Answer any ten-
   a. Define Enumeration with example.
   b. What is derived data types ? Give examples.
   c. What is Modem ?
   d. What is minterm and maxterm ?
   e. Write the syntax of INSERT Command in SQL.
   f. Give four example of string function in C++.
   g. What is compound data structures ? Give examples.
   h. Write the need for linked lists.
   i. What is static memory allocation.
   j. What do you understand by default constructor and
      parameterized constructor ?

k. What is logical error ? Give example.

l. What is Data Encapsulation.

3. Answer the following- 4x5=20

   a. Prove the DeMorgan'sfirst theorem.

   b. Describe various levels of Data independence.

   c. What is the difference between message switching technique and packet switching technique?

   d. Write the Input/Output manipulators in C++.

   e. Write a C program to find the area of a right angle triangle.

   f. What is Constructors ? Write two characteristics of destructors.

4. Answer any two-

   a. describe initialization of one dimensional array. Write a c++ program to find the addition of two matrices. 3+7=10

   b. Describe basic logic gates .state and prove Demorgan's theorm. 4+6=10

   c. What is Linked list ? Describe the basic operations on linked list. Write a function to insert a node in the beginning of a link list. 2+3+5=10

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