Note: All Questions are Compulsory.

Q.1: Attempt Any Four From the Following: (20 M)
1. How memory can be allocated for objects? Explain.
2. Give the difference between abstraction and Encapsulation.
3. How we can construct two dimensional array?
4. Explain different control structures available in C++.
5. Write a C++ program to print even and odd numbers between 1 to 100 in one program.
6. Write a note on Basic Data Type and User Defined Data type in C++.
7. What is parameterised constructor? List some properties of constructor.
8. Write functions with call by value and call by reference.

Q.2: Attempt Any Four From the Following: (20 M)
1. Explain multiple and multilevel inheritance.
2. Write a C++ program to illustrate the concept of array of pointers to objects.
3. What is an abstract class? Give the proper programming example.
4. Write a C++ program to illustrate the concept of polymorphism.
5. Explain the difference between early binding and late binding.
6. When do we make a class virtual? Write a C++ program to show the use of virtual class.
7. Write a program to find mean value of two members with friend function by using nesting member function.
8. What are the rules for operator overloading?

Q.3: Attempt Any Four From the Following: (20 M)
1. Explain following file stream classes: 1.ifstream 2.Ofstream 3.fstream
2. Explain try... and catch.. block with proper example.
3. Write a C++ program to show the use of function template.
4. What are the components of STL?
5. Write a C++ program for accepting the details name, code, and cost from user, store the details in a file and read the contents & display the details.
6. Explain write() and read() function.
7. Write a note on class template with multiple parameters.
8. What are the advantages of exception handling?

Q.4: Attempt Any Three From the Following: (15 M)
1. Write a note on Destructor in C++.
2. Write a note on Type conversion.
3. Write a C++ program with command line argument of main function by passing array and storing into file.
4. Write a note on this pointer.
5. What is an abstract class?
6. Write a note on STL algorithm.

The End ——