

6. a) What is inheritance? What are different types of inheritance? Explain any one type of inheritance with an example. 9
- b) Write a program using constructor overriding. 4
7. a) What is 'this' pointer? Give its example. 4
- b) Differentiate between Static & Non Static functions. 4
- c) Discuss Abstract class with example. 5

OR

8. a) What is the role of virtual function in C++? 4
- b) Why did Pure virtual function need? 5
- c) Explain pointer to object with example. 4
9. a) What is file pointer? Explain file pointer functions as follows. 5
 i) seekg () ii) seekp iii) tellg iv) tellp ()
- b) How error can be handled during file operations? 4
- c) Write a program in C++ to read the contents of one file and copy it to another file. 4

OR

10. a) What is the difference between opening a file using constructor function & opening a file using open function. 5
- b) Explain unformatted I/O operation & formatted I/O operation functions in detail. 5
- c) What are the various file opening mode? 3
11. a) What is exception? Explain how it is handled in C++?. 6
- b) What is template? Explain function template with example Also state its advantages and disadvantages. 8

OR

12. a) Discuss iterates & specialized iterates. 4
- b) Write a short note on **any three**. 10
 i) Sequential containers. ii) Associative containers.
 iii) Multiple catch block. iv) Standard Template Library.
 v) User defined Exception.
