

- Q1 What is meant by inheritance? what is significance of base class and derived class?
- Q2 What is difference between private, protected and public? Explain protected members used in inheritance in detail.
- Q3 Explain relation between base class and derived class using suitable example of real-time using C++.
- Q4 Explain constructor and destructor used in base class and derived class. How to access constructor of base class in derived class.
- Q5 Describe the syntax of overriding member function of base class into derived class. Which polymorphism is achieved using function overriding.
- Q6 What is public and private inheritance?
- Q7 List down types of inheritance. Explain each inheritance using example alongwith C++ syntax.
- Q8 What is meant by multiple inheritance. Explain the disadvantage of ambiguity and how to resolve ambiguity.
- Q9 Write short note on:
- a) Virtual base class
 - b) Abstract class
 - c) friend class
 - d) Nested class

Q10. Explain how to declare pointer, which notations are used to initialize and refer the pointer. What is use of indirection operator?

Q11. Explain concept of memory management. Write about new and delete operator in detail.

Q12. Write the syntax for following:-

- a) pointers to object
- b) this pointer
- c) Null pointer
- d) Void pointer

Q13. Write short note on:-

- a) Accessing arrays using pointers
- b) Arrays of pointers
- c) Function pointers
- d) pointers to pointers
- e) pointers to derived classes
- f) passing pointers to functions
- g) Return pointers to functions

Q14. Compare pointers and arrays.