



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ANNA UNIVERSITY :: CHENNAI - 600 025

B.E. [EEE] II Semester - Full-Time :: Nov. / Dec. 2012
EE 9152 - OBJECT ORIENTED PROGRAMMING

Time: 3 Hrs.

Max. Marks: 100

Answer ALL Questions

Part - A (10 x 2 = 20)

1. Differentiate between Object-oriented and Object-based approach?
2. List any two merits and two demerits of object oriented methodology.
3. Differentiate between pre and post increment/decrement operators.
4. Differentiate between while and do..while loops.
5. List the properties of a static member functions.
6. What do you mean by default constructor?
7. What is the effect of inheritance on the visibility of members?
8. Give the general format for function templates.
9. How generic programming is implemented in C++?
10. When do we use multiple catch handlers?

Part - B (5 x 16 = 80)

11. i) What do you mean by polymorphism? [4]
ii) Explain multiple and multilevel inheritance with examples. [12]
12. a) i) Write a note on object-oriented methodology. [8]
ii) Explain the repetition control structures used in C++ with examples. [8]

Or

b) i) Discuss the special operators available in C++. [10]
ii) List the hierarchy of operators and their associativity. [6]
13. a) i) What do you mean by constructors and destructors? [4]
ii) State and explain the different methods of defining member functions. [12]

Or

b) i) What do you mean by dynamic initialization of objects and how it is achieved? [8]
ii) Explain the concept of dynamic constructors with an example. [8]
14. a) i) State the rules for operator overloading. [6]
ii) Define a class for strings. Overload + and == operators for adding and comparing two strings. [10]

Or

b) i) What are the possible type conversions in C++? How they are achieved? [6]
ii) Write short notes on Function Templates and Class Templates. [10]
15. a) i) What do you mean exception handling? List the methods available in C-style exception handling and explain how they are used with an example. [16]

Or

b) i) List and explain the purpose of different statements available in C++ for handling run-time errors. Explain how they are used to handle exceptions with an example. [16]