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B.E / B. Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2012
ELECTRONICS AND COMMUNICATION ENGINEERING
THIRD SEMESTER

25

EC 502 – OBJECT ORIENTED PROGRAMMING

(REGULATIONS 2004)

Time: 3 Hours

Maximum Marks: 100

Answer ALL Questions

Part – A (10 x 2 = 20 Marks)

1. What are the basic concepts of Object Oriented Programming?
2. Write any four special characteristics of constructor function?
3. What is "this Pointer"? What is its use?
4. Define: Virtual function.
5. What are the various mechanisms to achieve the Polymorphism?
6. What is meant by Operator Overloading? Give an example.
7. Write the general format of class template.
8. Distinguish between overloaded functions and function templates.
9. What are the different forms of Inheritance?
10. Write the syntax of a derived class with multiple base classes.

Part – B (5 x 16 = 80 Marks)

11. (a). Write a program to illustrate the use of overloaded constructors.
12. (a). What is meant by Static Data Member? Illustrate the use of static data member.

OR

12. (b). What are the two parts of the class specification? Explain them with suitable programming example.
13. (a). Write a program for the implementation of array of pointers.

OR

13. (b). What is meant by Runtime Polymorphism? Explain the use of Runtime Polymorphism in a program.
14. (a). Write a program with function template for finding the maximum value in an array.

OR

14. (b). Write a class template to represent a generic vector. Include member functions to create the Vector and multiply the vector by a scalar value.
15. (a). Explain the Single Inheritance with a suitable programming example.

OR

15. (b). Explain the procedure to make a private member inheritable.
