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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2010

Fourth Semester

Branch : Computer Science and Engineering

OBJECT ORIENTED PROGRAMMING (R)

(2008 admissions—Regular—2007 admissions—Improvement/Supplementary)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

Each question carries 4 marks.

1. What kind of things can become objects in OOP ?
2. What are the special properties of constructor functions ?
3. What is a virtual base class ?
4. What is a friend function ?
5. Explain how polymorphism is achieved at (i) Compile time ; (ii) run time.
6. What are the advantages of overloading operators ?
7. Differentiate between class and template class. Give examples for each.
8. What are the uses of named and unnamed name spaces ?
9. What is an in-line function ?
10. Discuss the object oriented features of Java.

(10 × 4 = 40 marks)

Part B

Each question carries 12 marks.

11. (a) Explain with examples the mechanism of creating and using object and classes.

Or

- (b) Write a brief account on the evolution of object oriented languages.

Turn over

12. (a) Explain with examples the methods of member access control in classes.

Or

- (b) Write a brief account on the types of inheritance.

13. (a) Explain with examples the need and method of function overloading.

Or

- (b) Explain with an example the uses of abstract classes.

14. (a) Write a brief account on virtual destructors.

Or

- (b) Differentiate between class template and template class. Explain the uses of each.

15. (a) Explain with an example the use of in line functions.

Or

- (b) Discuss the object oriented features of Java.

(5 × 12 = 60 marks)