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Question Paper Code : P 1209

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Fourth/Fifth Semester

Electrical and Electronics Engineering

CS 1261 — OBJECT ORIENTED PROGRAMMING

(Common to B.E. Fourth and Fifth Semester Instrumentation & Control
Engineering and Electronics & Instrumentation Engineering)

(Regulation 2004)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is Object Oriented Programming? List any four OOP Languages.

2. What is meant by function overloading?

3. What are conditional constructor and destructor?

4. What is nameless object?

5. What is hierarchical inheritance?

6. Define this pointer.

7. How does Java achieve platform independence?

8. Distinguish between method overriding and method overloading in Java.

9. What happens if an exception handler is not defined when exception is thrown?

10. Give the paint method of an applet which draws a blue circle.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the concepts of Object Oriented Programming in detail. (10)

    (ii) Explain in detail ignore( ), peek( ) and putback( ) with an example. (6)

Or

    (b) (i) Write in detail about passing arguments to function. (9)

    (ii) Write a user defined manipulator to print "\t \t". (7)

12. (a) (i) Write in detail about friend function and friend classes. (8)

    (ii) Write a program to create a student database using array of objects. (8)

Or

    (b) (i) Explain with example the significance of static keyword in member function and variable declaration. (10)

    (ii) Explain copy constructors with an example. (6)

13. (a) What are the three ways for achieving the conversion from one class type to another class type? Discuss. (16)

Or

    (b) (i) Write a program to find the sum of two numbers by overloading the '+' operator. (6)

    (ii) Explain the different types of inheritance with suitable examples. (10)

14. (a) (i) List the advantages of Java in detail. (8)

    (ii) Write a program to find the sum of n numbers and product of n numbers. Get the choice from the user as a command line argument. (8)

Or

    (b) (i) Write about final variable, final method and final classes with suitable examples. (10)

    Write a program to find the area of a triangle, square, rectangle using method overloading. (6)

15. (a) (i) Explain with an example how multiple inheritance is achieved in Java. (10)

    (ii) How is synchronization of threads performed? (6)

Or

(b) (i) Explain the Exception handling mechanism with an example. (8)

    (ii) Explain the life cycle of an applet and write a simple applet to display a moving banner. (8)

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