Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 41232

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Fifth Semester

Electrical and Electronics Engineering

080280041 — OBJECT ORIENTED PROGRAMMING

(Common to 080230004 A – Object Oriented Programming for B.E. (Part – Time)
Third Semester, Electrical and Electronics Engineering)

(Regulation 2008)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the advantages of object oriented programming?

2. Why is an array called a derived data type?

3. How is dynamic initialization of objects achieved?

4. Give the significance of destructors.

5. List out the operators that can not be overloaded.

6. What is an abstract class?

7. What is the need for Java Virtual Machine?

8. Give the significance of final keyword in Java programs.

9. How can you use the feature of multiple inheritance in Java?

10. If a class is located in a package, what do you need to change in the OS environment to be able to use it?

PART B — (5 × 16 = 80 marks)

11. (a) Illustrate the basic concepts of object oriented programming.

Or

(b) (i) Write a program which reads a number between 1 to 7 and then print the day with respect to that number. Use switch case structure. (8)

(ii) Write a program to illustrate the call by reference. (8)

12. (a) (i) How can you specify a class? (6)

(ii) Describe the different mechanisms of accessing data members and member functions in a class with a suitable example. (10)

Or

(b) What is a constructor? Explain the different types of constructors with suitable examples. (2 + 14)

13. (a) (i) Write a C++ program to overload the decrement operator with prefix and postfix forms. (12)

(ii) Distinguish the term overloading and overriding. (4)

Or

(b) Illustrate the different forms of inheritance supported in C++ with suitable examples.

14. (a) (i) Write a Java program to find the factorial of a given number using recursion. (8)

(ii) Write a Java program to copy a file to another using command line arguments. (8)

Or

(b) Explain the concept of method overriding with an example? How the parameters are specified in methods?

15. (a) (i) Write a Java program for matrix multiplication. (10)

(ii) What is a Java package and how is it used? (6)

Or

(b) Discuss the implementation of interfaces in Java with suitable examples.

————————————