Fourth Semester Examination – 2008

PROGRAMMING WITH JAVA

Full Marks – 70

Time : 3 Hours

*Answer Question No. **1** which is compulsory and any **five** from the rest.*

The figures in the right-hand margin indicate marks.

1. Answer the following questions :   2 ×10

   (a) What is abstract method ? How it is created ?

   (b) Why does Java use Unicode ?

   (c) Does importing a package have an impact in performance of any program ?

   (d) What is run-time exception ?

   (e) What are wrapper classes ? Explain their uses.

   (f) What are swing classes ? Why it is used for ?

   (g) Differentiate between Java interface and abstract class.

   (h) Explain different ways of creating a thread.

   (i) What are listeners ? How these are used in event handling ?

   (j) What is a constructor ? When it gets executed ?

2. (a) Write a program in Java to find Fibonacci series using recursion.   5

   (b) Write a program to create a 2-D array to accommodate integer that accepts the values and stores them in an array. Your program should display all the values and the length of the array objects.   5

3. (a) Write a Java program to use *super* to access super class members.   5

   (b) Explain multi-level inheritance in Java by appropriate example.   5

4. (a) Write a program to create a menu for Hospital system.   5

   (b) Write a program for a n× m matrix multiplication.   5

5. (a) What is overloading ?   2.5

   (b) What is the difference between *while* statement and *do* statement ?   2.5

   (c) Overridden method supports polymorphism. Justify throughJava programming.   5

6. (a) Using Java program show the use of constructor, destructor and new operator.   5

   (b) How objects are passed to methods in Java. Explain with an example.   5

7. (a) What is the difference between declaring and defining a variable ?   2.5

   (b) What is Synchronization in Java ? Explain with example.   2.5

   (c) Using single string show the *println ( )* statement that produce the output.   5

       One
       Two
       Three

8. Write short notes on :   2.5 × 4

   (a) Abstract class

   (b) Different types of JDBC drivers

   (c) Different Synchronisation methods

   (d) *Switch* and *Break* statement in Java.

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