MCA (Revised)

Term-End Examination

December, 2012

MCS-024 : OBJECT ORIENTED TECHNOLOGIES AND JAVA PROGRAMMING

Time : 3 hours   *Maximum Marks : 100*

Note :   *Question 1 is compulsory. Attempt any three from the rest.*

1. (a) Why java is known as architectural neutral?   2

   (b) What is method overloading? Explain your   5
   answer with suitable example.

   (c) Explain static variable is used in java?   5

   (d) What are the functions of the dot(.)   5
   operator ? Explain with suitable example.

   (e) Differentiate between Inheritance and   5
   Abstract class ?

   (f) What is Interface in Java? Explain with an   6
   example how interfaces are created in Java.

   (g) What is multithreading ? Explain Different   6
   stages of a thread.

   (h) What is Garbage collection? Explain
   advantages and disadvantage of Garbage   6
   collection in Java.

2. (a) Briefly explain role of following classes in   **6**
Java Network programming
(i) Socket
(ii) Datagrams Packet

(b) Explain the difference between application   **4**
and applet ?

(c) What is object oriented programming ?   **10**
Explain basic concepts of object oriented
programming, briefly.

3. (a) Explain the two types of exceptions   **8**
available in java, with an example of each.

(b) Explain when should you extend the thread   **4**
class for creating a thread.

(c) Write a program to read the contents of file   **8**
into a character away and write it into
another file. Get names of the file from the
user through standard input.

4. (a) Can we import the same package class   **5**
twice? Will the JUM load the package twice
at runtime? Justify your answer.

(b) What are the characteristics of JDBC ? What   **8**
are the various types of JDBC? Write a
program to demonstrate how JDBC
connection is established.

(c) WAP to reverse a linked list and then copy   **7**
all elements of a linked list into another list.

5. (a) What is String Buffer? How it is different 8
from String? Write a Java program which
take your name as input and print it in
upper case.

(b) What is RMI ? Explain RMI Architecture 7
with suitable diagram.

(c) Why we use Java Beans in Java? Explain 5
features of Java Beans.

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