USN ☐☐☐☐☐☐☐☐☐☐   06CS/IS753

Seventh Semester B.E. Degree Examination, January 2013
Java and J2EE

Time: 3 hrs.   Max. Marks:100

Note: *Answer FIVE full questions, selecting*
at least TWO questions from each part.

PART – A

1 a. List and explain the java buzzwords.   (10 Marks)
    b. How arrays defined and used in Java?   (05 Marks)
    c. Discuss the labeled break and continue statements.   (05 Marks)

2 a. What is meant by instance variable hiding? How to overcome it?   (04 Marks)
    b. WAP in JAVA to implement a stack that can hold 10 integer values.   (06 Marks)
    c. What is an exception? Give an example for nested try statements.   (06 Marks)
    d. List Applet initialization and termination methods. Write a Java Applet that sets the background color to cyan and foreground color to red and outputs a string message "A simple Applet".   (04 Marks)

3 a. What is multithreading? Write a program to create multiple threads in JAVA.   (10 Marks)
    b. Discuss the significance of synchronization in Java.   (06 Marks)
    c. Briefly explain the role of:
    i) ActionEvent class   ii) AdjustmentEvent class.   (04 Marks)

4 a. Differentiate between AWT and swings.   (05 Marks)
    b. Explain the MVC architecture of swings.   (05 Marks)
    c. Describe the different types of swing buttons.   (10 Marks)

PART – B

5 a. Explain J2EE multitier architecture with a neat diagram.   (05 Marks)
    b. Describe the various steps of JDBC process with code snippets.   (10 Marks)
    c. What is meant by scrollable result set? Explain.   (05 Marks)

6 a. Write a program using servlet which contains HTML page to accept username and display greeting message as "Hello username, How are you?" in the browser window.   (08 Marks)
    b. Briefly explain the following:
    i) Servlet interface   ii) Generic servlet class   iii) Cookie class   (06 Marks)
    c. Illustrate the use of session information in servlets.   (06 Marks)

7 a. Define JSP. Explain the two types of control statements used in JSP by taking suitable examples.   (10 Marks)
    b. Write a JSP program to create and read a cookie called "EMPID" that has a value of AN2356.   (05 Marks)
    c. What is RMI? Briefly explain the working of RMI in JAVA.   (05 Marks)

8 a. Describe the concept of deployment descriptors.   (08 Marks)
    b. Explain the functions of EJB transaction attributes.   (08 Marks)
    c. Briefly discuss the significance of session Java Bean.   (04 Marks)

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