USN | | | | | | | | | | 10CS/IS753

Seventh Semester B.E. Degree Examination, Dec. 2013/Jan. 2014
JAVA and J2EE

Time: 3 hrs.   Max. Marks:100

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

PART – A

1   a. Explain how JAVA is robust and architecture neutral.   (08 Marks)
    b. Write a note on JAVA environment.   (06 Marks)
    c. Discuss three OOP principles.   (06 Marks)

2   a. Distinguish between method overloading and overriding in JAVA, with suitable examples.
                                                                               (06 Marks)
    b. What is super? Explain the use of super with suitable example.   (06 Marks)
    c. Write a JAVA program to implement stack operations.   (08 Marks)

3   a. What is thread? Explain two ways of creating a thread in JAVA with example.
                                                                               (10 Marks)
    b. What is the need of synchronization? Explain with an example how synchronization is
        implemented in JAVA.   (10 Marks)

4   a. Name and explain the different types of swing buttons with syntax.   (10 Marks)
    b. Write the steps to create J-table. Write a program to create a table with column heading
        "fname, lname, age" and insert atleast 5 records in the table and display.   (10 Marks)

PART – B

5   a. Give an example and explain J2EE multitier architecture.   (06 Marks)
    b. Explain the different types of statement object. Give example for each. (06 Marks)
    c. Write a program to execute a database transaction.   (08 Marks)

6   a. Explain the life cycle of servlets.   (05 Marks)
    b. List and explain core classes and interfaces that are provided in javax.servlet package.
                                                                               (10 Marks)
    c. Write a short note on HTTP request and response.   (05 Marks)

7   a. What is JSP tag? Explain the different types of JSP tags.   (10 Marks)
    b. What is a cookie? Explain the working of cookie in JAVA with code snippets. (10 Marks)

8   a. Explain the functions of EJB transaction attributes. Write a program to set the transaction
        attribute.   (10 Marks)
    b. What is entity JAVA bean? Explain the CMP entity bean. Give the skeleton of an entity
        bean.   (10 Marks)

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