USN ☐☐☐☐☐☐☐☐☐☐ 10CS/IS753

Seventh Semester B.E. Degree Examination, Dec.2017/Jan.2018
JAVA and J2EE

Time: 3 hrs. Max. Marks:100

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

PART – A

1. a. List and explain java features/buzzwords. (08 Marks)
   b. Explain bitwise shift and bitwise logical operators with examples. (05 Marks)
   c. With code snippets explain Jump statement in Java. (07 Marks)

2. a. What is a constructor? Mention the properties and illustrate example to overload constructions. (08 Marks)
   b. How are exceptions handled in Java? Explain briefly with example. (06 Marks)
   c. What is an applet? Explain life cycle of an applet. (06 Marks)

3. a. How do you make a class threadable? Explain with example. (07 Marks)
   b. List the sources of events. (05 Marks)
   c. What is the advantage of multithreading? Illustrate a program to implement multiple threads. (08 Marks)

4. a. List the drawbacks of AWT. Explain two key swing features. (06 Marks)
   b. Create a simple swing applet to contain two buttons "Alpha" and "Beta" and display appropriate message when clicked. (06 Marks)
   c. Explain briefly swing Buttons with code snippets for each. (08 Marks)

PART – B

5. a. Explain the concept of JDBC and JDBC driver types. (06 Marks)
   b. Explain JDBC process steps with example code. (07 Marks)
   c. What are the three types of statement objects? Explain with code snippets for each. (07 Marks)

6. a. Explain briefly the lifecycle of a servlet. Also mention the packages required. (06 Marks)
   b. List and explain the need of core classes and interfaces of a servlet. (07 Marks)
   c. What is a cookie? Write a program to display all cookies using servlets. (07 Marks)

7. a. List and explain JSP tags with examples for each. (08 Marks)
   b. Write a note on session. (04 Marks)
   c. Explain RMI concept and illustrate server side program. (08 Marks)

8. a. Explain the functions of EJB transaction attributes with program to set the attribute. (10 Marks)
   b. Describe the concept of deployment descriptors and explain the need of a JAR file. (10 Marks)

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