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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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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.