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10CS/IS753

Seventh Semester B.E. Degree Examination, May 2017 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 Java buzz words. (08 Marks)
 b. What is type casting? Explain Explicit type conversion with appropriate example. (06 Marks)
 c. How arrays are defined in Java? Explain with example. (06 Marks)
- 2 a. What is constructor? Explain parameterized constructor with example. (08 Marks)
 b. Define an applet. Describe the skeleton of an applet. (08 Marks)
 c. How to handle multiple exceptions in Java? Explain the concept with example. (04 Marks)
- 3 a. What is synchronization? Explain with an example how synchronization is implemented in java. (06 Marks)
 b. What is producer – consumer problem? Write a java program to implement producer consumer problem using threads. (08 Marks)
 c. Define delegation event model. Describe the significance of adapter class with an example. (06 Marks)
- 4 a. Explain how swing handles its events. Develop a swing application having two buttons named 'India' and 'USA'. When either of button is pressed, it should display "I am in India" and " I am in USA" respectively (10 Marks)
 b. Explain the following swing component with example for each. (10 Marks)
 i) JText Field ii) JScroll Pane.

PART – B

- 5 a. Describe the various steps of JDBC process with suitable code snippets. (08 Marks)
 b. Explain: i) Prepared statement ii) Callable statement with suitable example. (06 Marks)
 c. What is transaction processing? Illustrate the concept with suitable code snippet. (06 Marks)
- 6 a. Explain the life cycle of servlet with example. (06 Marks)
 b. Write a short note on : (08 Marks)
 i) Session Tracking ii) Cookies with example.
 c. Describe HTTP Request and HTP Response phases of servlets. (06 Marks)
- 7 a. What are JSP tags? Explain the different types of JSP tags. (10 Marks)
 b. What is RMI? Describe the code snippet of RMI at client side. (10 Marks)
- 8 a. What is deployment descriptor? List the deployment descriptor for EJB 1.1. (08 Marks)
 b. Write a short note on :
 i) JAR file
 ii) Stateless bean V/S statefull bean
 iii) Entity java bean. (12 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.