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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 : (12 Marks)
 - i) JAR file
 - ii) Stateless bean V/S statefull bean
 - iii) Entity java bean.

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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.