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06CS/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. List and explain the java buzzwords. (10 Marks)  
b. With example, explain the working : >> and >>> . (04 Marks)  
c. Write a Java program to calculate the average of the elements {3, 8, 6, 9}, using for each. How for each is different from for loop? (06 Marks)
- 2 a. With example, explain two uses of super. (05 Marks)  
b. Define exception. Write a Java program to demonstrate nested try statement. (07 Marks)  
c. Explain the different stages in the life cycle of an applet. Enlist applet tags. (08 Marks)
- 3 a. What is the need of synchronization? Explain with an example, how synchronization is implemented in Java. (10 Marks)  
b. Explain the producer – consumer problem, with a program. (06 Marks)  
c. Explain the delegation event model. (04 Marks)
- 4 a. What is a swing? Explain the components and containers in the swings. (10 Marks)  
b. Explain JLabel and image Icon with a program. (10 Marks)

**PART – B**

- 5 a. Describe the various steps of JDBC process, with code snippets. (08 Marks)  
b. What are the callable statement objects? Write a program to call a stored procedure. (08 Marks)  
c. Write a note on metadata. (04 Marks)
- 6 a. What is a servlet? Explain the life cycle of a servlet. (06 Marks)  
b. Explain how servlets are better in comparison with CGI. (04 Marks)  
c. With example, explain handling HTTP GET requests. (06 Marks)  
d. Write a program in HTML for adding a cookie. (04 Marks)
- 7 a. What are the different types of JSP tags? Demonstrate each with a simple JSP program. (10 Marks)  
b. What is RMI? Describe the code snippet RMI at server side. (10 Marks)
- 8 a. What are the different kinds of enterprise beans? Explain. (10 Marks)  
b. What is deployment descriptor? List the deployment descriptor for EJB1.1. (06 Marks)  
c. Write a code skeleton of a session bean. (04 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.