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10CS/IS753

**Seventh Semester B.E. Degree Examination, June/July 2017**  
**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. Explain Java buzzwords: Distributed and Multithreaded. (05 Marks)  
b. Explain for.. each version of loop. Write a Java program to display 2D consisting student data: Name and USN. Print this in a neat format. (05 Marks)  
c. Explain Java application development steps and JVM. (05 Marks)  
d. Explain different access specifiers. (05 Marks)
- 2 a. What are the different salient features of constructors? Write a Java program to show these features. (07 Marks)  
b. How interfaces are useful over abstract classes? Justify this with a program. (05 Marks)  
c. With a program, show how final keyword is used to prevent inheritance and overriding. (04 Marks)  
d. With a Java program, throw a customized exception. (04 Marks)
- 3 a. What are the different ways to create threads? Write a multithreaded program to display "Hello", "thread" separately by threads. (06 Marks)  
b. Mention and explain different stages of applet life cycle. Give the sketches. (07 Marks)  
c. Write event driven Java Applet program to add two buttons. Add event handler to play and stop audio clip "Sample.wav". (07 Marks)
- 4 a. Explain different container class of swing. Write a swing program to perform following :  
(i) To add a button, a label, 2 text fields  
(ii) On click of button transfer text from first text field to second text field.  
(iii) Also display uppercase text in label with font "Times New Roman", and size:12 (08 Marks)  
b. What are problem with AWT? How these are solved in swing? (05 Marks)  
c. Write a Java program to create JTable. Also event hander to add Name and USN which are entered through text fields. Event is performed on click of button. (07 Marks)

**PART – B**

- 5 a. Explain JDBC connection process. With a code snippet, how do you test JDBC drivers? (10 Marks)  
b. Write Java program snippet to update EMPLOYEE table with fields ENO, ESAL. Set ESAL to 5000 to all employees whose salary < 5000. (10 Marks)
- 6 a. Write a servlet program to display square of number, which is passed through parameter from client. (08 Marks)  
b. Explain the life cycle of servlet. (05 Marks)  
c. Write note on session tracking by servlet. (07 Marks)

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.



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- 7 a. Explain different JSP tags. Write a program to show usage of these tags. (10 Marks)  
b. Explain RMI. Write a program using RMI to concatenate two strings, passed by client. (10 Marks)
- 8 a. What are different EJBs? Explain. (08 Marks)  
b. With skeleton program, mention and explain different methods associated with message driven bean. (08 Marks)  
c. Write a note on JAR. (04 Marks)

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