

USN

--	--	--	--	--	--	--	--	--	--

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.

- 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)

CMRIT Library