

## ONE TIME EXIT SCHEME

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BANGALORE - 560 037

10CS/IS753

**Seventh Semester B.E. Degree Examination, April 2018**

**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. Describe the process of building and running of Java program. (05 Marks)  
b. List and explain Java Buzz words. (10 Marks)  
c. Write a Java program to find average of first 5 numbers of an array, {1, 2, 3, 4, 5, 6, 7, 8, 9, 10} using for each loop. (05 Marks)
- 2 a. What is an Applet? Describe the skeleton of an applet. (06 Marks)  
b. Explain three uses of keyword final. (09 Marks)  
c. Differentiate between method overloading and method overriding. (05 Marks)
- 3 a. What are threads? How to make classes threadable? (05 Marks)  
b. What is the need of synchronization? Explain how synchronization is achieved through methods. (07 Marks)  
c. Explain the life cycle of thread? Write a program to demonstrate isAlive( ) and join ( ) methods. (08 Marks)
- 4 a. What is swing? List and explain swing features and differentiate between AWT and Swings. (10 Marks)  
b. Explain JButton and JToggleButton with syntax and suitable example. (10 Marks)

**PART - B**

- 5 a. Describe the various steps of JDBC process with code snippets. (10 Marks)  
b. Distinguish between statement prepared statement and scrollable statement. Explain the role of scrollable ResultSet and Concurring ResultSet. (10 Marks)
- 6 a. Differentiate between HTTP get request and HTTP post request. (05 Marks)  
b. Write a Servlet program to read two values say  $n_1$ ,  $n_2$  which are of type integers and find the sum of them and return result back to web page. (07 Marks)  
c. What is cookie? Write a program to create a cookie and read a cookie. (08 Marks)
- 7 a. Define JSP. Write a JSP program to read parameters from JSP and display in webpage. (07 Marks)  
b. Write a JSP program to create a session and read the session attributes. (06 Marks)  
c. What is RMI? Briefly explain the working of RMI in Java. (07 Marks)
- 8 a. What is Enterprise Java Beans? Explain the types of EJB. (08 Marks)  
b. What is deployment descriptor? List deployment descriptor for EJB 2.0 (06 Marks)  
c. What is JAR file? Explain the benefits of JAR file format. (06 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.