



U.S.N

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

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Seventh Semester, B.E. - Information Science and Engineering

Semester End Examination; Dec. - 2015

Java and J2EE

Time: 3 hrs

Max. Marks: 100

Note: Answer any **FIVE** full questions, selecting at least **TWO** full questions from each **part**.

PART - A

1. a. Explain the lexical issues in Java. 7
- b. Explain the role of JDK in Java programming environment. 5
- c. Explain different logical operator in Java. What is the difference between “Logical AND” and “Short Circuit AND”? Explain with example. 8
2. a. Implement stack operation using Java. 6
- b. Explain different types of Exception handling. Write a program to access array element out of limit and handle this exception using appropriate exception. 10
- c. Explain Applet Skeleton. 4
3. a. Define multithreading. Write a program to create multiple threads in Java. 10
- b. Explain Delegation Event Model. Write a program using Applet to handle key board Event. 10
4. a. Explain swing component and containers. 6
- b. Explain the key features of swings. 4
- c. Write a program using swings to add text field on an Applet container and the entered text on the text field should be displayed on status window. 10

PART - B

5. a. Explain JDBC process overview. Write a program to display content of table from the database. 12
- b. Explain different types of JDBC drivers. 8
6. a. Explain life cycle of a servlet. 5
- b. Explain the process of building and testing a simple servlet with example. 8
- c. Write a program in Java to demonstrate session tracking. 7
7. a. Explain different JSP tags. 5
- b. Write a JSP program for displaying student result. If a mark is greater than 40 display “PASS” else “FAIL”. 5
- c. Write client side and server side program using RMI. 10
8. a. Explain the skeleton of an Entity Java Bean. 10
- b. What is message driver Dean? Explain. 5
- c. Explain EJB JAR files. 5

* * * *