

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

Seventh Semester B.E. Degree Examination, June/July 2014
JAVA and J2EE

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
atleast TWO question from each part.**

PART – A

- 1
 - a. How 'compile once and run anywhere' is implemented in Java, explain. (04 Marks)
 - b. List and explain the Java buzzwords. (06 Marks)
 - c. Explain : i) >>> ii) short circuit logical operators iii) for each. (06 Marks)
 - d. Describe the process of building and running Java program. (04 Marks)
- 2
 - a. Describe the significance of final and super, with examples. (06 Marks)
 - b. What is an exception? Explain the different exception handling mechanisms, with an example, (08 Marks)
 - c. Write an applet program to display the message "VTU BELGAUM". Set the background color to cyan and foreground color to red. (06 Marks)
- 3
 - a. What is synchronization? Explain with an example, how synchronization is implemented in Java. (06 Marks)
 - b. What is producer – consumer problem? Explain the solution for producer – consumer problem with a program. (08 Marks)
 - c. What is delegation event model? Describe the significance of adapter class, with an example. (06 Marks)
- 4
 - a. What is swing? List the main swing features. Explain the different types of panes of swing containers. (06 Marks)
 - b. Create a swing application having two buttons named alpha and beta. When either of the buttons pressed, it should display "alpha pressed" and "beta pressed" respectively. (06 Marks)
 - c. List the different types of swing buttons. Write a program to create four types of buttons on JApplet. Use suitable events to show actions on the buttons and use JLabel to display the action invoked. (08 Marks)

PART – B

- 5
 - a. Explain the four types of JDBC drivers. (06 Marks)
 - b. Describe the various steps of JDBC with code snippets. (08 Marks)
 - c. Explain : i) callable statement ii) prepared statement. (06 Marks)
- 6
 - a. Explain the different stages in the life cycle of a servlet. (06 Marks)
 - b. What is a cookie? List out the methods defined by cookie. Write a program to add a cookie. (08 Marks)
 - c. Write a program to describe parameter reading using servlets. (06 Marks)
- 7
 - a. Define JSP. Explain the different types of JSP tags by taking suitable examples. (10 Marks)
 - b. What is RMI? Describe with code snippet RMI at server side. (10 Marks)
- 8
 - a. What is deployment descriptor? List the deployment descriptor for EJB1.1. (06 Marks)
 - b. With a skeleton, explain entity Java bean. (06 Marks)
 - c. Explain : i) JAR file ii) Stateless bean versus stateful bean. (08 Marks)

* * * * *