

Seventh Semester B.E. Degree Examination, Dec.09/Jan.10
Java and J2EE

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. List and explain the java buzzwords. (10 Marks)
- b. Explain different access specifiers in Java, with examples. (06 Marks)
- c. i) `int num, den ;`
`if (den != 0 && num|den > 2){`
`}`
 ii) `int num, den ;`
`if (den != 0 & num|den == 2) {`
`}`
 Compare and explain the above two snippets. (02 Marks)
- d. Write a note on object instantiation. (02 Marks)
- 2 a. Which is the alternative approach to implement multiple inheritance in Java? Explain, with an example. (06 Marks)
- b. Create a try block that is likely to generate three types of exception and incorporate necessary catch blocks to catch and handle them. (06 Marks)
- c. What are applets? Explain different stages in the cycle of an applet? (08 Marks)
- 3 a. What is the need of synchronization? Explain with an example, how synchronization is implemented in Java? (10 Marks)
- b. What is meant by thread priority? How is it assigned? (06 Marks)
- c. Explain the adapter classes, with examples. (04 Marks)
- 4 a. Create swing applet that has two buttons named alpha and beta. When either of the buttons pressed, it should display "alpha was pressed" and "beta was pressed", respectively. (06 Marks)
- b. Name and explain different types of swing buttons. Give their syntax. (08 Marks)
- c. Write the steps to create JTable. Write a program to create a table with the column headings "Fname, Lname, Age" and insert at least five records in the table and display. (06 Marks)

PART – B

- 5 a. Give and explain J2EE multilayer architecture. (08 Marks)
- b. Describe the various steps of JDBC process, with code snippets. (08 Marks)
- c. Write a note on database metadata interface. (04 Marks)
- 6 a. Explain the lifecycle of a servlet. (06 Marks)
- b. Describe in detail, how tomcat web server is configured for development of servlet. (06 Marks)
- c. With a code snippet, explain how session tracking is handled in Java with servlets. (04 Marks)
- d. List and explain core classes that are provided in javax.servlet package. (04 Marks)
- 7 a. What is the difference between servlets and JSP? Explain different types of JSP tags with syntax. (05 Marks)
- b. Write a JSP to create and read cookie named user id that stores the value JB0007. (05 Marks)
- c. What is RMI? Describe with code snippet RMI at server side. (10 Marks)
- 8 a. What is deployment descriptor? List the deployment descriptor for EJB 1.1. (06 Marks)
- b. With a skeleton, explain entity Java bean. (06 Marks)
- c. How do you disable access to a method in EJB 2.0? Explain, with code. (04 Marks)
- d. Write a note on JAR file, [JAR]. (04 Marks)
