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Seventh Semester B.E. Degree Examination, December 2011
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 features of Java. (10 Marks)
- b. Explain the process of building and running a java application program. (05 Marks)
- c. Explain the following : (05 Marks)
 - i) JVM
 - ii) Type casting.
- 2 a. Define exception. Demonstrate the working of nested try blocks, with suitable examples. (08 Marks)
- b. What are applets? Explain the different stages in the life cycle of an applet. (08 Marks)
- c. Write short notes on: (04 Marks)
 - i) Final class
 - ii) Abstract class.
- 3 a. What is multithreading? Explain any two advantages of multithreaded programs. (04 Marks)
- b. Write a java program to implement a producer-consumer problem, using threads. (06 Marks)
- c. Explain the mechanism of event delegation model. Give an example for using keyboard event. (10 Marks)
- 4 a. What is a swing? Explain the components and containers in the swings. (08 Marks)
- b. Explain the following, with an example for each: (12 Marks)
 - i) JTextField class
 - ii) JButton class
 - iii) JComboBox class.

PART – B

- 5 a. Explain the J2EE architecture. (06 Marks)
- b. Describe the various steps of JDBC, with code snippets. (10 Marks)
- c. What are the transactions? Explain. (04 Marks)
- 6 a. What is a servlet? What are the phases of servlet life cycle? Give an example. (10 Marks)
- b. Write short notes on: (10 Marks)
 - i) Session tracking
 - ii) Cookies
- 7 a. What are the different types of JSP tags? Demonstrate with a simple JSP program. (10 Marks)
- b. What is RMI? Describe the code snippet RMI at client side. (10 Marks)
- 8 a. What are the different kinds of enterprise beans? Explain. (10 Marks)
- b. What is a deployment descriptor? List the deployment descriptor for EJB 1.1. (06 Marks)
- c. Write a note on JAR file. (04 Marks)

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