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**Seventh Semester B.E. Degree Examination, May/June 2010**  
**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. Explain any five object oriented features supported by java, with examples. (10 Marks)  
b. Explain the salient features of java. (06 Marks)  
c. What is polymorphism? Explain with an example. (04 Marks)
- 2 a. Explain the applet architecture and demonstrate how to pass parameters for font size, font name, and type conversion in applets. (10 Marks)  
b. What is an inner class? Write a program to demonstrate inner class. (06 Marks)  
c. Explain the java's built in exceptions. (04 Marks)
- 3 a. What is synchronization? What is role of synchronization in threads? Demonstrate a program using synchronized methods. (10 Marks)  
b. Explain the producer-consumer problem with a program. (06 Marks)  
c. What is an adapter class? Demonstrate, with an example. (04 Marks)
- 4 a. Briefly explain the containers and components in swings. (10 Marks)  
b. Explain the JScrollPane and JComboBox with a program. (10 Marks)

**PART - B**

- 5 a. Briefly explain the callable statement object. Write a program to call a stored procedure. (10 Marks)  
b. What is transaction processing? Write a program to execute a database transaction. (10 Marks)
- 6 a. What is a servlet? Explain the life-cycle of the servlet. (06 Marks)  
b. List out the differences between CGI and servlets. (04 Marks)  
c. What is a cookie? List out the methods defined by cookie. Write a program in HTML for adding a cookie. (10 Marks)
- 7 a. What is JSP? Explain the different types of JSP tags. (06 Marks)  
b. What is RMI concept? Explain the server side and client side methods. (10 Marks)  
c. What are the advantages of JSP? (04 Marks)
- 8 a. Briefly describe the enterprise javabeans. (08 Marks)  
b. Differentiate between stateless and stateful session bean. (04 Marks)  
c. Explain the functions of EJB transaction attributes and write a program to set the transaction attribute. (08 Marks)

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