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

JAVA and J2EE

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Briefly explain any six key considerations used for designing Java language. (12 Marks)
- b. Explain in brief about the Java development tool kit. (08 Marks)
- 2 a. Discuss the following terms:
 - i) super ii) this iii) Final (06 Marks)
- b. What is an applet? Explain different stages in the life cycle of an applet. (07 Marks)
- c. Create a try block that is likely to generate two types of exceptions and incorporate necessary catch block to catch and handle them. (07 Marks)
- 3 a. What is meant by thread priority? How is it assigned? (05 Marks)
- b. How synchronization can be achieved for threads in Java? Explain with syntax. (05 Marks)
- c. Explain the mechanism of delegation event model. List the use of adapter class with a small example. (10 Marks)
- 4 a. Describe the two key features of swing. (05 Marks)
- b. List the different types of containers and components available under swing package. (05 Marks)
- c. Write a program to create four different types of buttons on JApplet. Use suitable events to show actions on buttons and use JLabel to display the action invoked. (10 Marks)

PART – B

- 5 a. What are database drivers? Briefly discuss about the different types of drivers used in JDBC. (08 Marks)
- b. Give Java syntax for the following:
 - i) Connecting to a database using JDBC/ODBC bridge which has url = "JDBC:ODBC:SDB", username = "scott" and password = "tiger".
 - ii) Running a query "select emp_age from emp" over the connected database.
 - iii) Counting number of employees, with condition emp_age > 50. (06 Marks)
- c. Mention three types of statement objects? Write a program to call a stored procedure. (06 Marks)
- 6 a. Write a simple basic Java Servlet program to print "Hello" and describe the steps involved in the execution of this Servlet. (08 Marks)
- b. List out the differences between CGI and Servlets. (04 Marks)
- c. Write short notes on: i) Cookies, ii) Session tracking. (08 Marks)
- 7 a. Briefly explain the five types of JSP tags that are used in any JSP program. (08 Marks)
- b. Write a JSP program to declare multiple variables and print them accordingly. (05 Marks)
- c. What is RMI? Describe the code snippet RMI at client side. (07 Marks)
- 8 a. What are the different kinds of enterprise beans? Explain. (10 Marks)
- b. What is 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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