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10CS/IS753

Seventh Semester B.E. Degree Examination, June/July 2018
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 features of JAVA language. (06 Marks)
b. Write a JAVA program to implement linear search among {10, 30, 40, 5} with key = 30, using for each in JAVA. (04 Marks)
c. Explain the following with example :
i) Labelled continue ii) >>> iii) Short circuit AND operator. (06 Marks)
d. Explain the two ways of type conversion. Will the following snippet produce error? If yes how to overcome the error. byte b = 50; b = b * 2; (04 Marks)
- 2 a. Explain the following with example :
i) Dynamic method dispatching ii) Two uses of super. (08 Marks)
b. Explain throw and throws statements with example. (06 Marks)
c. Write a JAVA applet that sets the background color to blue and foreground color to red and outputs a message “shown in status window” to the status window. (04 Marks)
d. Define inner class. (02 Marks)
- 3 a. Write a program in java to implement producer consumer problem, using threads. (06 Marks)
b. What is the need for synchronization? Demonstrate a program using synchronized methods. (06 Marks)
c. Explain the mechanism of event delegation needed. Give an example for using mouse event. (08 Marks)
- 4 a. Write a Java swing applet that has 2 buttons named alpha and beta, when either of the button is pressed, it should display “alpha/beta was pressed” respectively. (06 Marks)
b. Explain components in swings. (06 Marks)
c. Explain following with an example for each i) JLabel ii) Jtextfield. (08 Marks)

PART – B

- 5 a. Describe the various steps of JDBC process with code snippet. (10 Marks)
b. Explain callable statement with example? (06 Marks)
c. Explain different types of drivers used in JDBC. (04 Marks)
- 6 a. What is Servlet? Explain phases of servlet life cycle. (06 Marks)
b. List the advantages of servlets over CGI. (04 Marks)
c. List and explain core classes that are provided in javax.servlet.http package. (04 Marks)
d. Write a java servlet program to illustrate how to use session state. (06 Marks)
- 7 a. Explain the different types of JSP tags with syntax. (05 Marks)
b. Write a JSP to create and read cookie named “ UserID” that stores the value “AB123”. (05 Marks)
c. Write a JSP to create and read session attribute named “product” that stores the value “2013”. (05 Marks)
d. Describe code snippet RMI at server side. (05 Marks)
- 8 a. Write a code skeleton of session bean. (06 Marks)
b. Explain various EJB transaction attributes. (06 Marks)
c. Write a note on JAR file (04 Marks)
d. Write a code skeleton of message driven bean. (04 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank spaces.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.