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10CS/IS753

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023
Java and J2EE

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. List and explain three OOP principles. (06 Marks)
b. Write a note on :
(i) >>> (ii) Short circuit operator (iii) for each (06 Marks)
c. Write a program to initialize an array with 10 elements. Find sum of only odd elements in array using for each and display the sum on screen. (08 Marks)
- 2 a. Define inheritance? Write a program to demonstrate multilevel inheritance. (08 Marks)
b. Demonstrate the working of multiple catch block with suitable example program. (06 Marks)
c. Explain neatly HTML applet tag. (06 Marks)
- 3 a. What is need of synchronization? Explain with an example, how synchronization is implemented in Java. (10 Marks)
b. Write a Java program to create two threads, one thread displays “Hello” and another thread displays “Welcome” for every 100 seconds. (06 Marks)
c. What is delegation event model? (04 Marks)
- 4 a. Define Swings. List and explain two key features of Swings. (06 Marks)
b. Write a program to create a label named color and 4 check box with caption “red”, “blue”, “green” and “yellow”. (08 Marks)
c. Explain the following swing components:
(i) JTable (ii) JScrollPane (iii) JTextField (06 Marks)

PART – B

- 5 a. Describe the various steps of JDBC with code snippets. (10 Marks)
b. Explain different types of JDBC drivers. (04 Marks)
c. Define following :
(i) callable statement (ii) prepared statement (06 Marks)
- 6 a. Explain the different stages in the life cycle of a servlet. (06 Marks)
b. Write a Java servlet that reads two integers parameters from webpage and returns the sum of these two numbers as result to webpage. (08 Marks)
c. Illustrate use of session information in servlet. (06 Marks)
- 7 a. Define JSP? Explain the different types of JSP tags with example. (10 Marks)
b. What is RMI? Describe with code snippet RMI at server side. (10 Marks)
- 8 a. Write a code skeleton of session bean. (06 Marks)
b. Explain various ESB transaction attributes. (08 Marks)
c. Explain difference between session bean and entity beans. (06 Marks)

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