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10CS/IS753

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
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. Explain three OOP principles. (06 Marks)
b. Explain how JAVA is robust and architecture neutral. (08 Marks)
c. Write a JAVA Program to sum only the first five elements of the array {2, 4, 6, 8, 10, 12, 14, 16, 18} , using "for - each" version of the for loop. (06 Marks)
- 2 a. What is an Applet? With a skeletal code, explain the methods that constitute the life cycle of an applet. (08 Marks)
b. What is super? Explain the use of super, with suitable example. (06 Marks)
c. What is an Exception? Write the syntax of try and catch block to handle multiple exceptions. Explain. (06 Marks)
- 3 a. What is Thread? Explain two ways of creating a thread in JAVA, with example. (10 Marks)
b. Explain the delegation event model used to handle events in Java. What are Events, Event Listeners and Event Sources? (05 Marks)
c. Discuss the significance of Synchronization in Java. (05 Marks)
- 4 a. What are the deficiencies of AWT that are overcome by Swings? Explain the two key features of swings. (08 Marks)
b. Explain with syntax the following :
i) JLabel ii) JTextField iii) JButton iv) JCheckBox. (12 Marks)

PART - B

- 5 a. Explain the four types of JDBC drivers. (10 Marks)
b. Explain any one type of statement object with necessary codes. (10 Marks)
- 6 a. Explain the different stages in the Life Cycle of a Servlet. (06 Marks)
b. Explain Servlet Interface , Generic class, Cookie class. (06 Marks)
c. Write a program to describe parameter reading using servlets. (08 Marks)
- 7 a. Define JSP. Explain the different types of JSP tags by taking suitable examples. (10 Marks)
b. What is RMI? Describe with code Snippet RMI at server side. (10 Marks)
- 8 a. List and explain EJB transaction attributes. (10 Marks)
b. Explain : i) JAR file ii) Stateless bean versus stateful bean. (10 Marks)

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.