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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.