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10CS/IS753

Seventh Semester B.E. Degree Examination, July/August 2021
Java and J2EE

Time: 3 hrs.

Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. List and explain the Java buzzwords. **(10 Marks)**
   b. How are arrays defined in Java? Explain with an example. **(05 Marks)**
   c. Explain the process of building and running a Java application program. **(05 Marks)**

2 a. Define exception. Demonstrate working of nested try blocks with suitable examples. **(08 Marks)**
   b. What are applets? Explain different stages in life cycle of an applet. **(08 Marks)**
   c. Write short notes on:
      i)   Final class
      ii) Abstract class. **(04 Marks)**

3 a. What is synchronization? Explain role of synchronization with producer and consumer problem. **(10 Marks)**
   b. What is multithreading? Write a program to create multiple threads in Java. **(10 Marks)**

4 a. Explain following, with an example for each
      i)   JTextField class
      ii) JButton class
      iii) JComboBox class **(12 Marks)**
   b. Explain the JscrollPane with an example. **(08 Marks)**

5 a. Describe various steps of JDBC, with code snippets. **(12 Marks)**
   b. Explain J2EEE multitier architecture with neat diagram. **(08 Marks)**

6 a. What is servlet? What are the phases of servlet life cycle? Give an example. **(10 Marks)**
   b. Write short notes on:
      i)   Session Tracking
      ii) Cookies. **(10 Marks)**

7 a. What are different types of JSP tags? Demonstrate with simple JSP program. **(10 Marks)**
   b. What is RMI? Describe code snippet for RMI at client side. **(10 Marks)**

8 a. What are the different kinds of enterprise beans? Explain. **(10 Marks)**
   b. With skeleton, explain entire Java Bean. **(10 Marks)**

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