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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 J2EE 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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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.