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**Seventh Semester B.E. Degree Examination, June/July 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. Explain the various lexicon issues of Java and state various primitive data types supported by Java. (10 Marks)
- b. Write a structure of simple Java program and explain. (10 Marks)
- 2 a. In Java programming, How methods and classes are defined? Explain. (10 Marks)
- b. Write a Java code to illustrate the Applet skeleton. (10 Marks)
- 3 a. Write a Java code to create a thread. (05 Marks)
- b. State the Action Event classes supported by Java. (10 Marks)
- c. What is Event? Explain two models of event handling in Java. (05 Marks)
- 4 a. Write Java code to display short text message on label using swing package. (10 Marks)
- b. State the two swing features and write the constructors of JLabel, JTextField, JButton and Tree class. (10 Marks)

**PART - B**

- 5 a. Write six steps to create database schema. (06 Marks)
- b. What is indexing? Define clustered key and derive key. (04 Marks)
- c. Write a Java code to open a connection with a Database. (05 Marks)
- d. State the commonly used Database Meta Data object methods and Resultset Metadata. (05 Marks)
- 6 a. Explain the life cycle of servlet. (05 Marks)
- b. State the classes and interfaces of javax.servlet package. (05 Marks)
- c. Write a servlet code to illustrate the use of session state. (10 Marks)
- 7 a. Explain five types of JSP tags. (05 Marks)
- b. Write a code to create a cookie. (05 Marks)
- c. Write a Java code for remote interface definition. (05 Marks)
- d. What are steps to be followed before running the client in Java Remote Method Invocation? (05 Marks)
- 8 a. What is Deployment Descriptors? Explain the skeleton of deployment Descriptor. (10 Marks)
- b. State any five EJB transaction attributes managed by EJB server. (05 Marks)
- c. Write a note on Java Archive (JAR) file. (05 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.