R20

III B. TECH I SEMESTER REGULAR EXAMINATIONS, DECEMBER - 2022
OBJECT ORIENTED PROGRAMMING THROUGH JAVA
(Common to EEE & ECE)

Time: 3 Hours   **Max. Marks: 70**

Note: Answer **ONE** question from each unit **(5 × 14 = 70 Marks)**
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UNIT-I

1. a) Outline the types of constructors in Java with an example.   [7M]
    b) Write a java code using do-while loop that counts down to   [7M]
        1 from 10 printing exactly 10 lines of 'hello'.

(OR)

2. a) List and explain the Data types in Java program with   [7M]
        examples.
    b) Explain command line arguments with an example.   [7M]

UNIT-II

3. a) Explain super keyword with an example.   [10M]
    b) Explain the need of Inheritance.   [4M]

(OR)

4. a) Define package. Explain how to create and use it.   [7M]
    b) Define abstract classes with an example.   [7M]

UNIT-III

5. a) Explain built in exceptions.   [7M]
    b) Explain object serialization concept with an example.   [7M]

(OR)

6. a) Explain exception handling mechanism in detail.   [7M]
    b) What is stream? write a program to write data into a file using   [7M]
        stream classes?

UNIT-IV

7. a) Differences between process and thread.   [6M]
    b) Discuss thread synchronization.   [8M]

(OR)

8. a) Demonstrate Thread prioritization with a Java Program.   [7M]
    b) Discuss Deamon threads?   [7M]

UNIT-V

9. a) What are the different types of Event Listeners supported by   [8M]
        java.
    b) State the differences between AWT and Swing.   [6M]

(OR)

10. a) Write a java program to design scientific calculator using AWT?   [7M]
    b) What is an adapter class? What is their role in event handling?   [7M]

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