

I B. Tech II Semester Supplementary Examinations, January/February - 2023
OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Common to ECE, EIE, ECT)

Time: 3 hours

Max. Marks: 70

Answer any FIVE Questions ONE Question from Each Unit
All Questions Carry Equal Marks

UNIT-I

1. a) Why JAVA is Robust programming language? Explain. [4M]
- b) Is JVM a Compiler or Interpreter? Justify your answer with proper explanation. [3M]
- c) Write a function in JAVA which accepts an array of integers as argument and returns the difference between minimum and maximum elements. [7M]

(OR)

2. a) With an example, explain dynamic initialization of objects using constructors. [7M]
- b) How strings are created using string literals and the new keyword? Give explanation. [7M]

UNIT-II

3. a) Explain in detail about the inheritance mechanism in JAVA with suitable example programs. [7M]
- b) Write the differences between an Interface and an Abstract class. [7M]

(OR)

4. a) Explain different types of polymorphism provided by JAVA programming. [7M]
- b) Explain how interfaces can be used to import shared constants into multiple classes. [7M]

UNIT-III

5. a) Write a JAVA program to create lists and combo boxes in a Frame. [7M]
- b) Write a JAVA program to illustrate the importance of Border layout. [7M]

(OR)

6. a) Write about the paint(), repaint() and update() methods of JAVA's applet. [7M]
- b) Briefly discuss various Swing Controls in JAVA programming. [7M]

UNIT-IV

7. a) What is an event and what are the models available for event handling in Java? [7M]
- b) Briefly describe the methods of Object Input and Object Output interfaces. [7M]

(OR)

8. a) Write a JAVA program to display the number of characters, words, and lines in a given file using Random Access File class. [7M]
- b) Explain the delegation event model of handling events with a suitable program. [7M]

UNIT-V

9. a) Write about the members and methods of Thread () class in JAVA. [7M]
- b) List out the various JAVA built-in Exception handlers [7M]

(OR)

10. a) Write a JAVA program to illustrate the creation and access of JAVA bean class. [7M]
- b) Explain various Socket classes available in JAVA for creating server applications. [7M]

