

I B. Tech II Semester Supplementary Examinations, Jan/Feb-2024**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) What is meant by constructor overloading? Explain the possible ways you can overload a constructor and write a sample Java program to demonstrate their usage. [7M]
- b) How to create objects? Does Java support object destruction? Justify your answer. [7M]

(OR)

2. a) "Java is called Machine Independent language" - Justify this statement with proper explanation. [7M]
- b) Write a Java program to sort a given set of strings in the alphabetical order where the strings are supplied through the command line. [7M]

UNIT-II

3. a) Discuss any two classes in *util* package with examples. [7M]
- b) How to apply interfaces? What is meant by extension of interfaces? Explain with an example. [7M]

(OR)

4. a) Compare and contrast interfaces, abstract classes and actual classes. [7M]
- b) Explain with suitable example, how super class variable can refer subclass objects? [7M]

UNIT-III

5. a) Explain about the layout manager and different layouts and also Discuss about grid bag layout with example Java program. [7M]
- b) What are the limitations of AWT? And explain MVC architecture for swing components. [7M]

(OR)

6. a) Discuss card layout manager with an example. [7M]
- b) Write a program to handle mouse events and mouse motion events. [7M]

UNIT-IV

7. a) List and explain all methods of key Listener and mouse Listener interface. [7M]
- b) Explain character oriented stream classes with an example. [7M]

(OR)

8. a) Explain in brief the event-handling mechanism in java with an example. [7M]
- b) Differentiate between File Reader and Buffer Reader. [7M]

UNIT-V

9. a) Describe the complete life cycle of thread with a neat block diagram at each stage. [7M]
- b) Illustrate the creation of user defined exception with an example program. [7M]

(OR)

10. a) How do the wait and notify All / notify methods enable cooperation between threads? Explain. [7M]
- b) Write short notes on data grams and write the java program. [7M]
