

Code No: **R15A0507****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech I Semester Supplementary Examinations, April 2023****Java Programming****(ECE)**

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Time: 3 hours**Max. Marks: 75****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

PART-A (25 Marks)

- 1). a Explain the basic principles of object oriented programming. [2M]
- b Describe various types of variables. [3M]
- c Illustrate various uses of super keyword with suitable code segments. [2M]
- d Differentiate between abstract class and interface. [3M]
- e Differentiate between throw and throws keywords. [2M]
- f Demonstrate the Date class [3M]
- g Describe about Scanner class in java [2M]
- h Write a Java program to handle keyboard events. [3M]
- i What are different types of Applets? [2M]
- j Describe the following Swing components i) JTextField ii) JTextArea [3M]

PART-B (50 MARKS)**SECTION-I**

- 2 Discuss declaration, allocation and accessing array elements in Java with an example. [10M]

OR

- 3 Explain access specifiers with scope rules. [10M]

SECTION-II

- 4 Explain method overloading and method overriding with suitable example. [10M]

OR

- 5 Write a Java program to implement multiple inheritance using interfaces [10M]

SECTION-III

- 6 Write a java program to implement StringTokenizer class. [10M]

OR

- 7 Explain thread synchronization with an example. [10M]

SECTION-IV

- 8 Explain the process of event handling through delegation model. [10M]

OR

- 9 Describe AWT class Hierarchy in detail. [10M]

SECTION-V

- 10 Explain with applet program about life-cycle methods. [10M]

OR

- 11 Explain the differences between AWT and Swing [10M]
