

Code No: **R20A0552****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

**III B.Tech I Semester Supplementary Examinations, May/June 2023****Java Programming****(EEE, ECE & AE)**

<b>Roll No</b>									
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**Time: 3 hours****Max. Marks: 70**

**Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

**\*\*\*****SECTION-I**

- 1     A     What feature of Java makes it platform independent and portable?     [7M]  
      B     Is Java a robust language? Justify your answer.     [7M]

**OR**

- 2     A     Describe the different types of data types used in Java     [7M]  
      B     What is an array? Explain types of arrays with an example.     [7M]

**SECTION-II**

- 3     A     Explain the different parameter passing mechanisms used in Java with an example.     [7M]  
      B     Compare method overloading and method overriding with a neat example.     [7M]

**OR**

- 4     A     Explain about the importance of anonymous inner class with an example.     [7M]  
      B     With suitable program segments describe the usage of 'super' keyword     [7M]

**SECTION-III**

- 5     A     What is the difference between a thread and a process?     [7M]  
      B     Differentiate checked and unchecked exception.     [7M]

**OR**

- 6     A     What is an exception? Explain types of exceptions with examples.     [7M]  
      B     How to achieve synchronization among threads? Write suitable code.     [7M]

**SECTION-IV**

- 7     A     Write a Java program to design scientific calculator using AWT.     [7M]  
      B     Explain the file management using File class.     [7M]

**OR**

- 8     A     Describe about various components in AWT.     [7M]  
      B     Explain about Button class with an example.     [7M]

**SECTION-V**

- 9     A     Differentiate AWT Vs Swings     [7M]  
      B     Explain life cycle of an applet with an example.     [7M]

**OR**

- 10    A     Design a swing application which takes number through a textfield and prints sum of the digits when submit button is pressed.     [7M]  
      B     Write the advantages of swings and limitations of AWT.     [7M]

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