

Code No: **R18A0552****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Supplementary Examinations, April 2023**Introduction to Java Programming**

(EEE, ME, ECE & AE)

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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** Explain any five object oriented features supported by java with examples. [9M]
 Explain about Object class in detail.

- B** Write a Java Program for swapping of two numbers without using third variable [5M]

OR

- 2 **A** Is Java a robust language? Justify your answer? Differentiate between a class and object. [7M]

- B** Explain briefly about type conversion and type casting with example program? [7M]

SECTION-II

- 3 **A** Write a runtime polymorphism program in Java by using interface reference variable [7M]

- B** Discuss about anonymous inner classes. With suitable code segments illustrate various uses of 'final' keyword. [7M]

OR

- 4 What is inheritance? Explain different forms of inheritance with suitable program segments and real world example classes. [14M]

SECTION-III

- 5 **A** How to handle multiple catch blocks for a nested try block? Explain with an example. [7M]

- B** Write a program that includes a try block and a catch clause which processes the arithmetic exception generated by division-by-zero error [7M]

OR

- 6 **A** Define Thread? Describe how to create a threads with an example [7M]

- B** Does Java support thread priorities? Justify your answer with suitable discussion. [7M]

SECTION-IV

- 7 **A** Explain about passing parameters to an applet [9M]

- B** Mention Various mouse and keyboard events? [5M]

OR

- 8 **A** Is Applet more secure than application program? Justify your answer [7M]

- B** What is the role of event listeners in event handling? List the Java event listeners [7M]

SECTION-V

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|-----------|----------|--|--------------|
| 9 | A | Why swing components are preferred over AWT components? | [7M] |
| | B | Write an applet to display the mouse cursor position in that applet window | [7M] |
| | | OR | |
| 10 | | Classify various Layout Managers with examples. | [14M] |
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