



MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

III B.Tech II Sem Regular End Examination, June 2022

Oops through JAVA**(Electronics and Communication Engineering)****Time: 3 Hours.****Max. Marks: 70**

Note: 1. Question paper consists: Part-A and Part-B.

2. In Part - A, answer all questions which carries 20 marks.

3. In Part - B, answer any one question from each unit.

Each question carries 10 marks and may have a, b as sub questions.

PART- A**(10*2 Marks = 20 Marks)**

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|---|----|-----|-----|
| 1. a) Define abstraction. | 2M | C01 | BL1 |
| b) What is meant by inner class? | 2M | C01 | BL2 |
| c) Define abstract class. | 2M | C02 | BL1 |
| d) What are the uses of 'super' keyword? | 2M | C02 | BL2 |
| e) Define thread. | 2M | C03 | BL1 |
| f) What is multitasking? | 2M | C03 | BL2 |
| g) List different types of event classes. | 2M | C04 | BL1 |
| h) What is check box group? | 2M | C04 | BL1 |
| i) Give the limitations of AWT. | 2M | C05 | BL2 |
| j) What are the different types of applets? | 2M | C05 | BL1 |

PART- B**(10*5 Marks = 50 Marks)**

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|--|-----|-----|-----|
| 2 a) Demonstrate constructor overloading. | 5M | C01 | BL3 |
| b) Write about type conversion in Java. | 5M | C01 | BL2 |
| OR | | | |
| 3 Explain the basic concepts of object oriented programming | 10M | C01 | BL1 |
| 4 a) What are the costs of inheritance? | 5M | C02 | BL2 |
| b) How to apply inheritance among interfaces? | 5M | C02 | BL3 |
| OR | | | |
| 5 Write a program to demonstrate multiple and multi level inheritance. | 10M | C02 | BL5 |

- 6 a) Illustrate the use of 'finally' in exception handling. 5M C03 BL2
b) Write a program to handle divide by zero exception. 5M C03 BL5
- OR**
- 7 What is the need of thread synchronization? How to synchronize threads in Java? Explain with suitable program segments. 10M C03 BL6
- 8 a) Describe delegation event model. 6M C04 BL1
b) List the containers of AWT. 4M C04 BL1
- OR**
- 9 What is the importance of layout managers? Explain various types of layout managers used in Java. 10M C04 BL5
- 10 a) Discuss the advantages of applets over application program. 5M C05 BL4
b) Describe the applet life cycle. 5M C05 BL2
- OR**
- 11 Write Java code to create a Java form using swing components for user registration to a technical event. 10M C05 BL5

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