



MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

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

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II B.Tech I Sem Regular End Examination, February -2022

Java Programming (ECE)

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) What is Robust? | 2M | C01 | BL1 |
| b) What is the importance of type casting? | 2M | C01 | BL1 |
| c) What is an abstract class? | 2M | C02 | BL1 |
| d) What are the benefits of inheritance? | 2M | C02 | BL1 |
| e) What is the use of daemon thread? | 2M | C03 | BL1 |
| f) Write a program to convert all the characters in the string to lowercase by using string function? | 2M | C03 | BL1 |
| g) What is an event source and an event listener? | 2M | C04 | BL1 |
| h) What is the default manager used in java? | 2M | C04 | BL1 |
| i) Why Swing components are called lightweight components? | 2M | C05 | BL1 |
| j) Differentiate between component and container in AWT. | 2M | C05 | BL1 |

PART- B

(10*5 Marks = 50 Marks)

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| 2 a) Explain about the scope and life time of a variable | 5M | C01 | BL4 |
| b) Write a recursive program to find the factorial of a given number | 5M | C01 | BL3 |

OR

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| 3 What is constructor? Explain the types of constructors with an example | 10M | C01 | BL4 |
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| 4 a) Explain the types of access specifiers are used in java | 5M | C02 | BL4 |
| b) Explain the method overriding with an example | 5M | C02 | BL4 |

OR

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| 5 Design an interface called Polygon with a method called area. Implement this interface to create different classes like Square, Rectangle and print the area of Square and Rectangle | 10M | C02 | BL6 |
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| 6 | a) Write a program to develop banking application in which user deposits the amount Rs 5000/- and then withdrawing of Rs 2000/-, Rs 1500/- and it throws exception " Not sufficient Fund" when user withdraws Rs3500/- thereafter. | 5M | C03 | BL3 |
| | b) Explain the life cycle of a thread | 5M | C03 | BL4 |
| OR | | | | |
| 7 | What is multithreading? In how many ways java implements multithreading? Explain one of these ways with suitable example | 10M | C03 | BL4 |
| 8 | a) Explain the AWT class hierarchy | 5M | C04 | BL4 |
| | b) Explain about event delegation model | 5M | C04 | BL4 |
| OR | | | | |
| 9 | Write a program to implement the Mouse handling | 10M | C04 | BL3 |
| 10 | a) Differentiate between an applet and application program | 5M | C05 | BL2 |
| | b) Explain the methods and constructors are used in JComboBox | 5M | C05 | BL4 |
| OR | | | | |
| 11 | Write a swing program to find the sum of two numbers | 10M | C05 | BL3 |

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