



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 Supply End Examination, July-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 are the rules of constructor | 2M | C01 | BL1 |
| b) | What is type casting | 2M | C01 | BL1 |
| c) | Define an interface | 2M | C02 | BL1 |
| d) | What is the importance of super keyword | 2M | C02 | BL1 |
| e) | What is thread synchronization | 2M | C03 | BL1 |
| f) | Write a program to find the length of the string by using string method | 2M | C03 | BL1 |
| g) | What are the pros of adapter class? | 2M | C04 | BL1 |
| h) | Differentiate between scrollbar and scrollpane | 2M | C04 | BL2 |
| i) | Write a program to create different shapes like line, circle and rectangle using an applet | 2M | C05 | BL1 |
| j) | What are the constructors are used in Jbutton? | 2M | C05 | BL1 |

PART- B

(10*5 Marks = 50 Marks)

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|-------|---|----|-----|-----|
| 2. a) | Explain about the switch statement with an example | 5M | C01 | BL4 |
| b) | Write a program to find whether the given number is a prime number or not | 5M | C01 | BL1 |

OR

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|-------|--|-----|-----|-----|
| 3. | Explain about the Data types used in Java | 10M | C01 | BL4 |
| 4. a) | Explain about the method overriding with an example | 5M | C02 | BL4 |
| b) | What is package? How packages are created and implemented in Java? Explain in detail | 5M | C02 | BL1 |

OR

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|-----------|---|-----|-----|-----|
| 5 | Develop a library interface which has <code>drawbook()</code> , <code>returnbook()</code> , <code>checkstatus()</code> and <code>reservebook()</code> methods. All the methods tagged with <code>public</code> | 10M | C02 | BL6 |
| 6 | a) Explain about the interthread communication | 5M | C03 | BL4 |
| | b) Write a program to implement the File not found exception | 5M | C03 | BL1 |
| OR | | | | |
| 7 | Write a java program to compute addition and multiplication of given matrices using threads | 10M | C03 | BL1 |
| 8 | a) Write a program to display the fruit names by using Checkbox | 5M | C04 | BL1 |
| | b) Explain the AWT class hierarchy | 5M | C04 | BL4 |
| OR | | | | |
| 9 | Explain the different types of layout managers are used in java with an example | 10M | C04 | BL4 |
| 10 | a) Explain the MVC architecture | 5M | C05 | BL4 |
| | b) Explain the life cycle of an Applet | 5M | C05 | BL4 |
| OR | | | | |
| 11 | Write a java swing program that simulates a traffic light. The program lets the user select one of three lights: red, yellow or green with radio buttons. On selecting a button, an appropriate message with "stop" or "ready" or "go" should appear above the buttons in selected color. Initially there is no message shown | 10M | C05 | BL3 |

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