

Code No: R22A0507

**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

**II B.Tech II Semester Regular/Supplementary Examinations, April 2025****Object Oriented Programming through Java**

(CSE,IT,CS&amp;IT,CSE-CS,CSE-AIML,CSE-DS,CSE-IOT &amp; B.Tech-AIML)

<b>Roll No</b>									
----------------	--	--	--	--	--	--	--	--	--

**Time: 3 hours****Max. Marks: 60****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 10 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

\*\*\*\*\*

<b><u>PART-A ( 10 Marks)</u></b>			<b>BCLL</b>	<b>CO(s)</b>	<b>Marks</b>
<b><u>(Write all answers of this part at one place)</u></b>					
<b>1</b>	A	What is Object Oriented Programming?	L1	CO-I	[1M]
	B	List java buzz words.	L1	CO-I	[1M]
	C	How to create an interface?	L1	CO-II	[1M]
	D	Define method overloading?	L1	CO-II	[1M]
	E	Define multithreading.	L1	CO-III	[1M]
	F	What is an exception?	L1	CO-III	[1M]
	G	What is the Java Collection Framework, and why is it used?	L1	CO-IV	[1M]
	H	What is an importance of JDBC?	L1	CO-IV	[1M]
	I	What are the five regions of a Border Layout?	L1	CO-V	[1M]
	J	What method is used to append text to an existing JTextArea?	L1	CO-V	[1M]
<b><u>PART-B ( 50 Marks)</u></b>					
<b><u>SECTION-I</u></b>					
<b>2</b>	A	What is an array? How are arrays declared and initialized? Explain with examples.	L3	CO-I	[5M]
	B	What is the purpose of the this keyword in Java?	L1	CO-I	[5M]
<b>OR</b>					
<b>3</b>	A	Write a program to demonstrate Constructor Overloading?	L3	CO-I	[5M]
	B	Write a Java program to check if a number is even or odd.	L3	CO-I	[5M]
<b><u>SECTION-II</u></b>					
<b>4</b>	A	Explain about the overloading method with an example.	L5	CO-II	[5M]
	B	Demonstrate How to import packages.	L2	CO-II	[5M]
<b>OR</b>					
<b>5</b>	A	What are the differences between Interface and Abstract class?	L4	CO-II	[5M]
	B	Illustrate the usage of super keyword.	L2	CO-II	[5M]

**SECTION-III**

- |   |   |  |    |        |      |
|---|---|--|----|--------|------|
| 6 | A | What are the Differences between multiple processes and multiple threads | L4 | CO-III | [5M] |
|   | B | Explain the role of the throw keyword in exception handling?             | L5 | CO-III | [5M] |

OR

- |   |   |  |    |        |      |
|---|---|--|----|--------|------|
| 7 | A | What are the benefits of the exception handling mechanism? | L1 | CO-III | [5M] |
|   | B | Write in brief about thread synchronization.               | L1 | CO-III | [5M] |

**SECTION-IV**

- |   |   |  |    |       |      |
|---|---|--|----|-------|------|
| 8 | A | Explain basic steps in Developing JDBC Application.  | L5 | CO-IV | [5M] |
|   | B | What is the difference between ArrayList and Vector? | L4 | CO-IV | [5M] |

OR

- |   |   |  |    |       |      |
|---|---|--|----|-------|------|
| 9 | A | Explain different JDBC drivers.                          | L5 | CO-IV | [5M] |
|   | B | What is a lambda expression in Java, and why is it used? | L1 | CO-IV | [5M] |

**SECTION-V**

- |    |   |  |    |      |      |
|----|---|--|----|------|------|
| 10 | A | Demonstrate different Layout managers?     | L2 | CO-V | [5M] |
|    | B | How does JTextArea differ from JTextField? | L1 | CO-V | [5M] |

OR

- |    |   |   |    |      |      |
|----|---|---|----|------|------|
| 11 | A | Explain AWT class hierarchy using block diagram?  | L5 | CO-V | [5M] |
|    | B | Write a simple Java program using Swing to display a button that prints "Hello World" when clicked. | L3 | CO-V | [5M] |

\*\*\*