

Code No: **R20A0508****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****II B.Tech II Semester Supplementary Examinations, April 2025****Object Oriented Programming through Java****(CSE, IT, CSE-CS, CSE-AIML, CSE-IOT, B.Tech-AIDS & B.Tech-AIML)**

Roll No									
---------	--	--	--	--	--	--	--	--	--

**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**

- |   |          |   | <b>BCLL</b> | <b>CO(s)</b> | <b>Marks</b> |
|---|----------|---|-------------|--------------|--------------|
| 1 | <i>A</i> | What are the drawbacks of procedural languages? Explain the need of object oriented programming with suitable program | <b>L2</b>   | <b>CO-I</b>  | <b>[7M]</b>  |
|   | <i>B</i> | Explain the different types of constructors with an example java program.   | <b>L2</b>   | <b>CO-I</b>  | <b>[7M]</b>  |

OR

- |   |          |  |           |             |             |
|---|----------|--|-----------|-------------|-------------|
| 2 | <i>A</i> | Does Java support multi way selection statement? Justify your answer with a program. | <b>L4</b> | <b>CO-I</b> | <b>[7M]</b> |
|   | <i>B</i> | What are the different access modifiers in Java? Explain the scope of each.          | <b>L2</b> | <b>CO-I</b> | <b>[7M]</b> |

**SECTION-II**

- |   |          |  |           |              |             |
|---|----------|--|-----------|--------------|-------------|
| 3 | <i>A</i> | What is inheritance? Explain different forms of inheritance with suitable program segments and real world example classes. | <b>L2</b> | <b>CO-II</b> | <b>[7M]</b> |
|   | <i>B</i> | How to define, access and import a package? Discuss with syntax and examples   | <b>L3</b> | <b>CO-II</b> | <b>[7M]</b> |

OR

- |   |          |   |           |              |             |
|---|----------|---|-----------|--------------|-------------|
| 4 | <i>A</i> | Write a java program that illustrates the usage of super keyword.         | <b>L3</b> | <b>CO-II</b> | <b>[7M]</b> |
|   | <i>B</i> | Discuss about anonymous inner classes in detail with an example program . | <b>L2</b> | <b>CO-II</b> | <b>[7M]</b> |

**SECTION-III**

- |   |          |  |           |               |             |
|---|----------|--|-----------|---------------|-------------|
| 5 | <i>A</i> | Differentiate throw and throws keyword in exception handling with suitable examples.                 | <b>L4</b> | <b>CO-III</b> | <b>[7M]</b> |
|   | <i>B</i> | Write a program that creates a thread that forces preemptive scheduling for lower- priority threads. | <b>L3</b> | <b>CO-III</b> | <b>[7M]</b> |

OR

- |   |          |  |           |               |             |
|---|----------|--|-----------|---------------|-------------|
| 6 | <i>A</i> | What is an exception? How are exceptions handled in Java programming? Explain with suitable program. | <b>L2</b> | <b>CO-III</b> | <b>[7M]</b> |
|   | <i>B</i> | Write a program to illustrate the use of multiple catch blocks for a try block                       | <b>L3</b> | <b>CO-III</b> | <b>[7M]</b> |

**SECTION-IV**

- |   |          |   |           |              |             |
|---|----------|---|-----------|--------------|-------------|
| 7 | <i>A</i> | Discuss how Iterator class helps in iterating through a Collection using suitable examples. | <b>L4</b> | <b>CO-IV</b> | <b>[7M]</b> |
|---|----------|---|-----------|--------------|-------------|

	<b>B</b>	Write a JDBC program to search for an attribute in a table and display the entire tuple to the user. For example, display all the details of the student given his/her roll number.	<b>L3</b>	<b>CO-IV</b>	<b>[7M]</b>
		<b>OR</b>			
<b>8</b>	<b>A</b>	Explain about HashSet and TreeSet classes in java	<b>L2</b>	<b>CO-IV</b>	<b>[7M]</b>
	<b>B</b>	Write a program to copy the contents of file1 to file 2. Read the names of files as command line arguments	<b>L4</b>	<b>CO-IV</b>	<b>[7M]</b>
		<b><u>SECTION-V</u></b>			
<b>9</b>		Explain the AWT class hierarchy and how it relates to Swing components. What are the key differences between Swing and AWT in Java GUI programming? Provide an example demonstrating the advantages of Swing over AWT.	<b>L4</b>	<b>CO-V</b>	<b>[14M]</b>
		<b>OR</b>			
<b>10</b>	<b>A</b>	Write a Java program to create AWT radio buttons using check box group.	<b>L3</b>	<b>CO-V</b>	<b>[7M]</b>
	<b>B</b>	Write a program to demonstrate various keyboard events with suitable functionality.	<b>L3</b>	<b>CO-V</b>	<b>[7M]</b>

\*\*\*