

Hall Ticket No.:

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Set-1Course Code: **23MCA1T05**

**MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE
(AUTONOMOUS)**

I-MCA I-Semester (MR23) Regular Examinations, March - 2024

OBJECT ORIENTED PROGRAMMING WITH JAVA

Time: **3** hoursMax. Marks: **70**

*Answer **ALL** the questions*

Q. No.	Question		Marks	CO	BL
1	a	Describe different levels of access protection available in JAVA.	(7M)	CO1	L2
	b	Describe the special characteristics of Constructors and Destructors in JAVA programming.	(7M)	CO1	L2
(OR)					
2	a	Write a function in JAVA which accepts an array of integers as argument and returns the differences between minimum and maximum elements.	(7M)	CO1	L2
	b	Explain in detail the Four major principles of object oriented paradigm.	(7M)	CO1	L1
3	a	Explain in detail about the inheritance mechanism in JAVA with suitable examples.	(7M)	CO2	L3
	b	Explain the polymorphism and its types with an example.	7M)	CO2	L2
(OR)					
4	a	What is a package? Write the syntax to define a package in detail.	(7M)	CO2	L2
	b	Develop a JAVA program to illustrate the significance of 'super' keyword.	(7M)	CO2	L2
5	a	Describe the types of Exceptions in JAVA. Explain the steps to create and handle user-defined exceptions in JAVA programming.	(7M)	CO3	L2
	b	Explain the Life cycle of Thread in JAVA programming.	(7M)	CO3	L2
(OR)					
6	a	What is the necessity and importance of Thread Synchronization? How it is achieved in JAVA? Explain with a program.	(7M)	CO3	L3
	b	What is a Daemon Thread? Why is it required? Which function converts the user thread to Daemon Thread?	(7M)	CO3	L2

7	a	Explain the Delegation Event Model of handling events with a suitable program.	(7M)	CO4	L3
	b	Develop a JAVA program to create Lists, Buttons and Checkboxes in a Frame.	(7M)	CO4	L2
(OR)					
8	a	Explain the importance of Adapter classes with a JAVA program.	(7M)	CO4	L3
	b	Discuss the purpose and types of Layout managers in JAVA.	(7M)	CO4	L3

9	a	Write about the MVC architecture and give an example.	(7M)	CO5	L1
	b	How to pass parameters to an Applet? Explain with a JAVA program.	(7M)	CO5	L3
(OR)					
10	a	Differentiate between AWT and SWING in JAVA.	(5M)	CO5	L4
	b	Write a JAVA program to create different shapes and fill colors using Applet.	(5M)	CO5	L3

MODEL QUESTION PAPER