RollNo.			



## JSS MAHAVIDYAPEETHA JSSACADEMYOFTECHNICALEDUCATION,NOIDA DEPARTMENT OF INFORMATION TECHNOLOGY CIA-I[EvenSemester-(AY2024-25]

Course : B.Tech

Date: 03/05/2025

Semester : IV<sup>th</sup>
Subject : Object Oriented Programming with Java

Subject Code: BCS403

Max. Marks: 20

Time : 1hrs=60min

COURSE OUTCOMES		BL/KC*
CO1 Develop the object-oriented programming concepts using Java		K3,K4
CO2		K2,K4
CO3	Apply new java features to build java programs.	K3
CO4	Analyse java programs with Collection Framework	K4 .
CO5	Test web and RESTful Web Services with Spring Boot using Spring Framework concepts	K5 · ·

	Section-A			
Attemp	t all the questions of this section			(1 X5=5)
Q.No.	Question	Marks	CO	BL/KC*
a	Show how bytecode make java as platform independent language.		CO1	K1
b	Object is an instance of a class, Justify your answer	. 1	CO1	K1
c	c Mention the role of class path in java package.		CO1	K1
d	How are objects implemented in Java?		CO1	K1
e	List the limitations of static members?	1	CO1	K1
	Section-B			
Attempt all the questions of this section		,		(3X3=9)
2.	Compare & contrast Procedure Oriented Programming and Object Oriented Programming.  OR	3	CO1	K2
	Explain the striking feature of java as Object oriented programming language.			
3.	Illustrate Constructors and their applications in Java. Describe the types of		CO1	K2
What do you mea interface?		3	COI	K2
	Explain the use of super keyword with proper example.			
	Section-C			
Attem	pt all the questions of this section			(())
Why 5.	Why multiple inheritance is not possible in java? Write a java program to explain how it implemented in java.			(6X1=6)
	OR Write a Java program to create a class called Employee with methods called work() and getSalary(). Create a subclass called HRManager that overrides the work() method and adds a new method called addEmployee().		CO1	К3



Cute