Reg No	Name: Name:	FFEC
	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSATY	TION
B.Tech De	egree S3 (S,FE)/S1 (PT)(S) June 2024 (2019 Scheme)/S3 (WP)(R) December 2023	Examin
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		الملايقين
	Course Code: CST205	JRUTY
	Course Name: OBJECT ORIENTED PROGRAMMING USING JAVA	
Max. N	Marks: 100 Duration:	3 Hour
	PART A Answer all questions. Each question carries 3 marks	Marks
1	Why java is said to be platform independent?	(3)
2	Explain any three OOP concepts.	(3)
3	What is a parameterized constructor? Is it possible to create an object for a class	(3)
	A using A obj = new A (), if the class contains only parameterized constructor?	
	Justify	
4	State the uses of super keyword?	(3)
5	Present an outline of Java's checked exceptions defined in java. lang.	(3)
6	What is the need for thread synchronization? How it can be implemented?	(3)
7	Differentiate between interface and abstract class?	(3)
8	What is an event? Explain any three event classes?	(3)
9	Outline the use of setSize(), setVisible() and setTitle() methods when working	(3)
	with frame windows with their signature	
10	Discuss the advantages of Swing over AWT.	(3)
	PART B	
	Answer any one full question from each module. Each question carries 14 mark	S
	Module 1	
-11	(a) Represent a Library management system using a use case diagram	(6)
	(b) Name the four integer types in Java and outline the bitwise operators that can	(8)
- '	be applied to the integer types.	-
12	(a) Explain any six buzzwords using which java can be characterized.	(6)
	(b) Draw the class diagram of a movie reservation system.	.(8)

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Module 2

13	(a)Differentiate method overloading and method overriding with the help of	(7)
	examples	
	(b) Write a java program to find the sum of two complex numbers. Use suitable constructors and methods.	(7)
14	(a) Write a java program to find the product of two matrices?	(7)
	(b)Define Constructor? State its properties. Explain its uses with examples.	(7)
	Module 3	
15	(a) Explain the use of try, catch, throw, throws and finally in detail?	(7)
	(b) Write a Java program to read a string from a file and store it in another file	(7)
16	(a) Write a java program that catches NegativeException. This is caused when a negative number is entered by user?	(6)
	(b) What are the steps involved in creating a user defined package with example?	(8)
	Module 4	
17	(a) Explain List and Collections interfaces. Mention the exceptions thrown by its methods.	(6)
	(b) Write a program to count the total no. of chars, words, lines, alphabets, digits, white spaces in a given string	(8)
18	(a) What is meant by event delegation model?	(6)
	(b)Write a program that creates two threads. Fist thread prints the numbers from 1 to 100 and the other thread prints the numbers from 100 to 1. Execute the two threads in parallel	(8)
	Module 5	
19	(a)What are the steps followed to establish a connection with JDBC driver and a JAVA application	(7)
	(b)Write a Swing program to create a mini calculator.	(7)
20	(a)List and explain different types of Layout managers with suitable examples.	(7)
	(b) Write a java GUI Program to calculate the factorial of a number.	(7)