Re	g N	o.:Name:	FC. W
		APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	(July
		Гhird Semester B.Tech (Minor) Degree Examination December 2021 (2020 admissi	on)
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		Course Code: CST281	
		Course Name: OBJECT ORIENTED PROGRAMMING	
M	ax.	Marks: 100 Duration:	3 Hours
		PART A	
		Answer all questions. Each question carries 3 marks	Marks
4	1	Write the differences between functional oriented and object oriented	(3)
		approaches.	
	2	Discuss the features of Java Bytecode.	(3)
	3	List the Bitwise operators in Java. Give a description about the Bitwise	(3)
		operators.	
	4	What is recursion? Write a Java program to find the factorial of a number using	(3)
		recursion.	
	5	Discuss the different types of exceptions in java.	(3)
	6	List out the access specifiers in Java. Write the features of the access specifiers.	(3)
	7	Describe PrintWriter class in Java.	(3)
	8	With an example describe the method used to find the length of a string.	(3)
	9	Describe model view controller architecture.	(3)
	10	Differentiate Swing and AWT.	(3)
		PART B	
	An	swer any one question completely from each module. Each question carries 14 m	arks
		Module 1	
	11	a. Write notes on basic object oriented concepts.	(6)
		b. What are the features of a class diagram? Draw the class diagram of a Library	(8)
		Management system.	
	12	a. Write notes on Java Virtual Machine.	(8)
		b. Draw Use case Diagram for movie reservation system.	(6)

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Module 2

13	a. Which are the selection statements used in Java? Write the syntax and	(10)
13	examples of different selection statements.	(10)
		(4)
no. 10	b. Write short notes on type conversion and casting.	(4)
14	a. Describe classes and objects with examples. Write the differences between	(8)
	classes and objects.	
	b. Write short notes on constructors in Java. Mention the different types of	(6)
	constructors.	
	Module 3	
15	a. Which are the different types of inheritances used in Java?	(8)
	b. Discuss the use of final keyword in inheritance with example.	(6)
16	a. Describe method overriding. Write a Java program to demonstrate method	(5)
	overriding.	
	b. Describe throw, throws and finally with suitable examples.	(9)
	Module 4	
17	a. What is the difference between print() and println() methods in Java.	
	Describe with suitable examples.	(9)
	b. With an example explain ArrayList class.	(5)
18	a. Explain different types of methods used for file operations.	(8)
	b. Describe the methods used for string modifications with examples.	(6)
	Module 5	
19	a. Explain how Swing is used as a GUI framework. Write down the features of	(6)
	Java Swing.	
	b. Write notes on the event handling in Java.	(8)
20	a. Describe the different ways of creating a thread.	(5)
	b. Write notes on JFrame, JButton and JTextField with suitable examples.	(9)
