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Reg No.:______ Name:______

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fourth Semester B.Tech Degree (S, FE) Examination January 2024 (2015 Scheme)

Pages: 2

Course Code: CS206 Course Name: OBJECT ORIENTED DESIGN AND PROGRAMMING (CS) **Duration: 3 Hours** Max. Marks: 100 PART A Marks Answer all questions, each carries 3 marks. (3) Explain how platform independence is achieved in Java. 1 (3) List out two properties of a constructor 2 (3) What are the different ways of passing parameters in Java 3 Write a Java program that reads a month number and prints the corresponding (3) 4 month name using a switch-case statement. Answer any two full questions, each carries 9 marks. (5) Draw a use case diagram for a library management System 5 (4) b) Illustrate method overloading with the help of an example (4) a) Explain the Object Oriented Development Life cycle. b) Write a Java program to find the sum of two complex numbers. Use suitable (5) methods and constructors. (5) Represent a Sales order System using a class diagram 7 (4) Explain the visibility of all access specifiers available in Java language. PART C Answer all questions, each carries 3 marks. (3) Outline the uses of super keyword using suitable code snippets 8 (3) 9 Explain the two different methods of creating a Thread State the properties of an abstract class. (3) 10 Draw a diagram indicating the working of Java OutputStream and InputStream (3) 11 PART D Answer any two full questions, each carries 9 marks. Write a Java program to read n numbers into an array and throw a user-defined (5) 12 exception if the average of the elements of the array is greater than 50 Explain the use of synchronized keyword with the help of an example (4)

13	a)	Illustrate the life cycle stages of a Java thread with a neat diagram	(5)
	b)	Outline the uses of finally keyword in Java	(4)
14	a)	Explain a scenario where the throws keyword can be used.	(4)
	b)	Write a Java program to read the contents of a file and copy it to another file.	(5)
		PART E	. ,
		Answer any four full questions, each carries 10 marks.	
15	a)	List out any five String handling functions in Java with their signature	(5)
	b)	Write an applet program to draw a circle inside a rectangle	(5)
16	a)	Explain the differences between applets and application programs	(5)
	b .)	With the help of examples, Illustrate the two different ways of creating a simple	(5)
		GUI using Swing.	
17	a)	Differentiate between String and String Buffer class	(5)
	b)	Write an event-handling program in the applet that prints a message by clicking	(5)
		the button.	` '
18	a)	Compare and contrast AWT and Swing in the context of Java graphical user	(5)
		interface (GUI) development.	
	b)	Explain the delegation Event model with the help of a neat sketch	(5)
19	a)	Elaborate on the life cycle stages of an applet in Java	(5)
	b)	Write a Java program to create a table in database and store the details of student	(5)
		(stdid, mark1, mark2, mark3) by making JDBC connection.	` /
20	a)	Illustrate the different steps involved in connecting Java with a database	(5)
	b)	Write a law man will Co. It's Law and Co.	(5)
		input two values and perform addition, subtraction, and multiplication operations.	
		It also displays the results of the corresponding operations.	
