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Fourth Semester B.E. Degree Examination, June/July 2023 **Object Oriented Concepts**

Tir	ne: í	e: 3 hrs.	Max. Marks: 100
	Λ	Note: Answer any FIVE full questions, choosing ONE full	question from each module.
		Module-1	
1	a.	The state of the s	ples. (06 Marks)
	b.	1	gramming. (08 Marks)
	C.		nction to find maximum of two
		numbers.	(06 Marks)
		OR	
2	a.	The state of the s	within objects. (06 Marks)
	b.	The state of the s	program. (08 Marks)
	C.	processing of the process of the pro	-
		programming.	(06 Marks)
		Acres	
2		Module-2	
3	a.	program	
	b.	The same of the sa	(06 Marks)
	C.	1 8	
		Java. Also show how for each is different from for loop.	(08 Marks)
		OR	4
4	a.		C++ program to define quitable
•	u.	parameterized constructor with default values for the class	distance with data mambars foot
		and inches.	(08 Marks)
	b.		
	0.	what is nested class. Explain the use of hested class with	(06 Marks)
	C.	2. What is namespace? Explain with suitable example.	(06 Marks)
		Module-3	
5	a.	a. Define inheritance and also define multilevel hierarchy wi	th an example. (10 Marks)
	h	Define "this" keyword and explain with example program	

- - b. Define "this" keyword and explain with example program. (04 Marks)
 - c. Define exception. Write a program with IllegalAccessException. Use proper exception handler so that exception should be printed. (06 Marks)

OR

- Illustrate method overriding. Explain the rules to be followed while overriding a method. 6
 - Write the difference between throw and throws keyword with suitable example Java b. (08 Marks)
 - Explain the use of "Super" keyword with example Java program. (04 Marks)

(04 Marks)

Module-4 Define Thread. Demonstrate thread priorities in Java with example program. (10 Marks) Briefly explain the role of interfaces while implementing multiple inheritance in Java. (05 Marks) Demonstrate different levels of access protection available for package and their (05 Marks) implications. Demonstrate the role of synchronization in producer and consumer problem. (10 Marks) Define package and also explain the steps involved in creating user defined packages with (06 Marks) an example program. (04 Marks) Explain the two ways of creating thread in Java. Module-5 Develop a swing applet that has four checkbox items like C, C++, Java and Python. When 9 anyone of the checkbox item is selected, it should display "C checked", "C++ checked and (10 Marks) b. Build JLabel and JImageIcon with example Java program. (06 Marks) (04 Marks) Explain adapter class with an example. OR Explain the following with an example for each and syntax: 10 i) JLabel ii) JComboBox iii) JTextField (10 Marks) iv) JButton Illustrate JTable with suitable example. (06 Marks)

Describe two key features of SWING program.