CBCS SCHEME

						150015
USN						150845

Fourth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Object Oriented Concepts

		Object Oriented Concepts	
Tir	ne: 3	3 hrs. Max. M	1arks:80
	N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	odule.
	-	Module-1	
1	a.	Define Structure. With suitable example.	(05 Marks)
	b.	State and compare Object – Oriented program using with procedure oriented pr	
	c.	Define Inline function. Explain with an example program. What are the condition	(04 Marks)
	О.	inline functions cannot be expanded?	(07 Marks)
		minic functions cannot be expanded:	(07 Marks)
		OR	
2	a.	Differentiate between class and structure. With an example, explain the syntax fo	r defining a
		class and structure.	(08 Marks)
	b.	Define friend junction and rules to be used while using it. Explain with a C++ pro	ogram to
		add two complex numbers.	(08 Marks)
		Module-2	
	a.	How "compile once and run anywhere" is implemented in JAVA? Discuss.	(04 Marks)
	b.	Write a program to calculate the average among the elements {8, 6, 2, 7} using	
		Java. How for each is different from for loop?	(06 Marks)
	C.	Explain type conversion, with an example.	(06 Marks)
		OR	(00)
1	a.	List and explain the java buzzwords.	(08 Marks)
	b.	Explain the concepts of arrays in Java with examples. Also write a program that	
		initializes a four integer elements array. Find the sum and average of its values.	(08 Marks)
		Module-3	
6	0	Define inheritance. Explain multilevel hierarchy with an example program.	(05 Marks)
5	a. b.	Describe the various levels of access protections available for packages and their	(03 Marks)
		implications.	(07 Marks)
	c.	Distinguish between method overloading and overriding in Java, with suitable ex	
	٥.	Distinguish occurred inclined overloading and overloading in tuvu, with canadic on	(04 Marks)
		OR	
ĺ	a.	Define exception. Explain exception handling mechanism with an example.	(08 Marks)
	b.	Discuss the following terms with example: i) super ii) final.	(08 Marks)
		Module-4	
7	a.	How synchronization can be achieved for threads in Java? Explain with syntax.	(06 Marks)
	b.	Explain the adaptor class with an example.	(04 Marks)
		TTY: 1 .1	(0 () ()

(06 Marks)

With the syntax explain the use of isAlive() and Join() methods.

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8	a.	What are the differences between suspending and stopping the threads?	(05 Marks)
	b.		(06 Marks)
	c.	P 1	(05 Marks)
		Module-5	
9	a.	Define an Applet. What are the two types of an applet? Explain architecture.	(08 Marks)
	b.	What is Swing? Explain important feature of swing.	(04 Marks)
		What are advantages and disadvantages of applets?	(04 Marks)

OR

10 a. Explain the following with an example for each:

i) Jtext field
ii) Jtable
iii) JcomboBox.
(12 Marks)
b. Explain components and containers in the swing.
(04 Marks)