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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

June / July 2024 Semester End Make-Up Examinations

Programme: B.E.

Branch: Computer Science and Engineering

Course Code: 23CS3PCOOJ / 19CS3PCOOJ

Course: Object Oriented Java Programming

Semester: III

Duration: 3 hrs.

Max Marks: 100

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			UNIT - I	CO	PO	Marks
	1	a)	List and explain the applications of java.	CO1	PO1	5
		b)	Build a java program to print the fibonacci series without using recursion.	CO3	PO3	5
		c)	With an example explain java class and objects.	CO1	PO1	5
		d)	Explain class constructor. With a code snippet explain the types of constructors.	CO1	PO1	5
			UNIT - II			
	2	a)	With an example distinguish the different types of inheritance.	CO2	PO2	6
		b)	With an example show how super can be used to refer immediate parent class instance variable and immediate parent class method.	CO1	PO1	8
		c)	Explain generics in java. List the advantages of using java generics.	CO2	PO2	6
			UNIT - III			
	3	a)	With an example discuss the java package.	CO1	PO1	10
		b)	Can the interfaces be extended? Justify with the program.	CO2	PO2	10
			OR			
	4	a)	What is exception in java? With an example discuss how exception is handled.	CO3	PO3	10
		b)	Does java support works multi-catch block? Justify with an example.	CO3	PO3	10
			UNIT - IV			
	5	a)	Construct a program to demonstrate the various ways of creation and working of multithreads.	CO3	PO3	10

	b)	How can one thread know whether another thread has ended? Demonstrate with the program.	CO3	PO3	10
		OR			
6	a)	Write a java program using threads to print the output in the following order only. [object] [oriented] [java] [programming]	CO3	PO3	10
	b)	Define input stream and output stream of byte stream classes and discuss any four methods of input stream and output stream.	CO1	PO1	10
		UNIT - V			
7	a)	Develop a program to illustrate mouse handling events.	CO3	PO3	10
	b)	Develop a program to create a frame window and demonstrate usage of any five graphics functions and text capabilities.	CO3	PO3	10
