S.E. (IT) CSem -III) CCBSGS) Date-6/Paper/Subject Code: 49806/OBJECT ORIENTAED PROGRAMMING ÂMETHODOLOGY Date-6/6/19

(3 Hours)

QP CODE: 40341 Marks: 80

Note: Q. 1 is compulsory.

Attempt any THREE questions from Q. 2 to Q. 6

Q. 1	a	Differentiate between method overloading and overriding.	[5]
	b	Illustrate with an example use of arraycopy() method.	[5]
	c	Discuss the limitations of String class in JAVA. Differentiate between Sting and	[5]
		StringBuffer class.	
	d	Write a program to calculate GCD of two numbers. Take input from command	[5]
		line arguments. (GCD: Greatest Common Divisor)	
Q. 2	a	Explain Inheritance. Discuss different types of Inheritance in JAVA. Why JAVA	[10]
		does not support Multiple Inheritance?	
	b	What is multithreading? Explain different ways to create thread in JAVA. Write a	[10]
		program to display 1 to 10 numbers by creating a thread.	
Q. 3	a	Differentiate between application program and Applet. Explain applet lifecycle	[10]
٠		with neat diagram.	
	b	Explain the steps to create package in JAVA by adding class or an interface.	[10]
		Write a program to create package MYPACK to add Employee class and display	
		Employee details: Employee_ID, Employee_Name and Employee_Salary.	
Q. 4	a	Explain exception handling mechanism with the help of try, catch, throw, throws	[10]
		and finally.	
	b	Differentiate between interface and abstract class.	[5]
	c	Why JAVA is platform Independent? Explain JVM.	[5]
Q. 5	a	Write a program to create class Product with Product ID, Product Name, Quantity	[10]
		and Price. Also write methods to take input for product details, to display product	
		details and to sort product details in ascending order of their price. Write a program	
		to read and display sorted list of 10 products.	
	b	Differentiate between Array and Vector. Explain any five methods of Vector class.	[10]
Q. 6	a	Explain use of super keyword in JAVA.	[5]
	b	Discuss Final keyword with respect to variable, method and class in JAVA.	[5]
	c	Explain logical operators in JAVA	[5]
	d	What is constructor? Explain different types of constructor.	[5]