3RD SEM./AI & ML./CS & E/ IT/ 2024(W)

TH4 OBJECT ORIENTED METHODOLOGY

Time- 3 Hrs

Full Marks: 80

			Figures in the right hand margin indicates marks	
	1.	a. b.	Answer All questions Define Encapsulation. What is the output of the following program class A { public static void main(String args[]) { System.out.println(10+20+"Java");	2 x 10
		c. d. e. f. g. h. i. j.	What is Interface in Java? Write the syntax to create an interface. How "public" access specifier different from "default" access specifier? Write the importance of final keyword in Java. Give at least two benefits of inheritance. What do you mean by widening typecasting in OOM. Give one Example. Write the functions of JVM. What do you mean by platform independency in Java? What is the use of super keyword in Java?	
	2.	a. b. c. d. e. f. g	Answer Any Six Questions Why main() in java is public, static and void not simply void main()? Can we overload constructor? Justify your answer with example. How do we declare a static data member? How it differs from non static data member? What is String class. Give three examples of in-built methods of String class with their syntax. How to declare and initialize a 1-D array in java? Describe it with an example. Define Stream. Explain the types of Stream. What is polymorphism? Distinguish between Static and dynamic polymorphism.	5 x 6
5201-29	3. 4. 5.		Answer Any Three Questions Briefly describe the basic characteristics of Object Oriented Methodology. Define Inheritance. Explain the types of inheritance with example. What do you mean by a package? Create a package named student and import the package in a program.	10 2+8 2+8
5201	6.		Write a program to create a class named Account. Create two objects of Account class holding acc_no, acc_holder_name, bank_name as instance variable and two methods such as input() and display() to initialize and display the members.	10
	7.		Write short notes on: a) Constructor,b)Finally statement, c)Exception handling, d)String Buffer class.	2.5 x 4