B. Tech CSE Semester (4) Class Test –I (24/03/2022)
Course: - Object Oriented Programming with Java (102403CS)

Time: 2 Hrs.   **Maximum Marks: 40**

- *Note: Attempt all questions. Part (a) of each question is compulsory and carries 4 marks, attempt any two parts from part (b), (c) and (d) carrying 8 marks*
- **CO1: Explain the basic concepts of JAVA programming language.**
- **CO2: Demonstrate the use of classes, packages and exception handling.**
- **CO3: Demonstrate the use of multi-threading and file i/o.**
- **CO4: Show the use of AWT and SWING components along with database connectivity.**
- **CO5: Show the use of collections framework and generics.**

Q. No.		Question	Marks	CO	BL	PI
1	a)	Draw and explain the Architecture of Java.	4	1	1	1.3.1
	b)	Explain Object, Class, Encapsulation and Abstraction in Java.	8	1	1	1.3.1
	c)	Explain with proper example the Static Control Flow in Java.	8	1,2	1,2	1.3.1
	d)	Write and explain a program in Java to read two values using Scanner class object and print the greatest.	8	1,2	1,2	1.3.1
2	a)	Explain with proper example UML Class notation.	4	1,2	1	1.3.1
	b)	Compare Abstract class and Interface.	8	2	1	1.3.1
	c)	Explain with proper code example the concept of "extends" and "implements" in Java.	8	2	1,2	1.3.1
	d)	Explain with proper code example the use of "super" reference and "super()" method in Java.	8	2	1,2	1.3.1

Note: A question may be split into sub-part further if required.

CO – **Course Outcomes**

BL – **Bloom's Taxonomy Levels**

(L1-Remembering, L2- Understanding, L3-Applying,

L4- Analysis, L5- Evaluating, L6-Creating).

PI – **Performance Indicator Code**

(Please See: https://www.aicte-india.org/sites/default/files/ExaminationReforms.pdf