H.T.No: ☐☐☐☐☐☐☐☐☐☐   **Course Code No: 20IT3T02**

VISHNU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

II B. Tech I Semester (R20) - Supplementary Examinations, July – 2022

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(CSE, IT, AI & DS & CS & BS)

Time: 3 Hours   **Max. Marks: 70M**

Note: 1. Answer all the 5 Questions
2. Each Question carries 14 Marks
3. Answer either question from each unit

UNIT – I

1	a	What is JVM? Explain how it works.	L1	CO1	[7M]
	b	Differentiate procedural language and OOP, also explain the features of OOPs.	L2	CO1	[7M]

OR

2	a	What are primitive data types in java. Explain?	L3	CO1	[7M]
	b	Write a simple program which demonstrates while and do-while.	L1	CO1	[7M]

UNIT – II

3	a	Explain what is a Class and what is an Object. Explain with their syntax.	L1	CO2	[7M]
	b	What is Overloading? Explain with a simple demonstration program.	L2	CO2	[7M]

OR

4	a	What are access controls of class members in java. Explain.	L3	CO2	[7M]
	b	What is inheritance? Explain different types of inheritance.	L1	CO2	[7M]

UNIT – III

5	a	What is a package? Explain how to create and import packages.	L1	CO3	[7M]
	b	What is an interface? Explain about functional interfaces.	L2	CO3	[7M]

OR

6	a	Explain java.util package.	L3	CO3	[7M]
	b	Can a class implement interface and extends class both at same time. Justify your answer with simple example.	L1	CO3	[7M]

UNIT – IV

7	a	What is an exception? Explain how to handle the exceptions in java.	L1	CO4	[7M]
	b	Differentiate the String and String Buffer Class.	L2	CO4	[7M]

OR

8	a	Write a java program to create and extract the text file in java.	L3	CO4	[7M]
	b	Explain about checked and unchecked exceptions in java.	L1	CO4	[7M]

UNIT – V

9	a	What is the concept of multi-threading? Explain different states of thread.	L1	CO5	[7M]
	b	Explain the JDBC Architecture.	L2	CO5	[7M]

OR

10	a	Explain the steps in connectivity of JDBC.	L3	CO5	[7M]
	b	What is synchronization of threads? Explain.	L1	CO5	[7M]

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