END TERM EXAMINATION

FOURTH SEMESTER [B.TECH] JUNE 2025
Subject: Programming in Java

Tim	le: 3 H	(A)(FR	Maximum Marks:60	
Not	e: Atte	empt five questions in all including Q.No.1 which is comput	sory.	
· •		Select one question from each unit.	. —	
Q1	Atter	Why java is called a pure object oriented programming language Differentiate between grid layout and border layout managers. What is a thread? Describe the complete life cycle of thread. Describe the uses of final and super keywords with respectinheritance. Differentiate between Array List and Vector.		
Q2	a) b)	UNIT-I Explain in detail about Garbage Collector in Java. Discuss the security architecture of Java in detail.	(5) (5)	
Q3 _.	,b)	Describe the features of Java Programming Language that justits popularity. Explain sandbox security model with diagram in detail.	tifies (5) (5)	
Q4.	10 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /	UNIT-II Describe run time polymorphism in java with a suitable examp Demonstrate the wrapper classes in java. Discuss in detail about Abstract Classes in Java.	le.(4) (3) (3)	
Q5	(a) b) c)	Write a program to illustrate the use of multiple catch blocks try block. Can we have an empty catch block? Justify. What is the use of String Tokenizer class?	for a (4) (3) (3)	
		UNIT-III		
Q 6	a) b)	Define Daemon Threads? Explain with an example Write a java program to develop Login Window using AWT.	(5) (5)	
Q , 7	(a)	Write a Java program that creates three threads. First the displays "Hello!" every one second, the second thread dis "Wear Mask!" every two seconds and "Use Sanitizer!" every seconds	plays	
	b)	Discuss the event delegation model in Java. Also explain the components of it.		
		UNIT-IV		
Q8 ,	a) b)	Describe different types of JDBC drivers. Explain the random access file operations with a suitable properties.	(5) gram. (5)	
Q9	a) b)	What support is provided by File class for file manager Illustrate with suitable scenarios. Write a program to store the names of bank depositors and current balances using hash tables.	(5)	