R19

II B.Tech I Semester Regular Examinations, March - 2021 **JAVA PROGRAMMING**

(Common to CSE and IT)

Time: 3 Hours Max. M			arks : 60		
		Note: Answer ONE question from each unit (5 × 12 = 60 Marks)			
	UNIT-I				
1.	a)	Explain the basic concepts of Object Oriented Programming.	[6M]		
	b)	Build a Java code to read a string from user and display whether the given string is a Palindrome or not?	[6M]		
		(OR)			
2.	a)	List the primitive data types available in Java and explain.	[6M]		
	b)	Build a Java code to read an integer using Scanner class and display prime numbers up to the given integer?	[6M]		
		UNIT-II			
3.	a)	What is inheritance and how does it help to create new classes quickly? Explain the significance of public, protected and private access specifiers in inheritance.	[7M]		
	b)	Explain the procedure of creating a user defined exception with appropriate example program.	[5M]		
		(OR)			
4.	a)	What are the advantages of using Exception handling mechanism in a program? Write a java program that illustrates the application of multiple catch statements.	[7M]		
	b)	Write the benefits of packages. How can we add a class to a package? Write about relative and absolute paths.	[5M]		
		UNIT-III			
5.	a)	Differentiate between multiprocessing and multithreading. What is to be done to implement these in a program?	[6M]		
	b)	What are the different ways that are possible to create multiple threaded programs in java? Write a program to create four threads using Runnable interface.	[6M]		
		(OR)			
6.	a)	What are the methods available in the Character Streams? Discuss with appropriate example program.	[6M]		
	b)	Distinguish between Byte Stream Classes and Character Stream Classes.	[6M]		

UNIT-IV

7.	a)	What are the best practices related to Java Collections Framework? Discuss.	[6M]
	b)	Differentiate between Iterator and ListIterator? Explain different ways to iterate over a list.	[6M]
		(OR)	
8.	a)	How an Hashtable can change the Iterator? Explain.	[6M]
	b)	Explain the common algorithms implemented in Collections Framework.	[6M]
		UNIT-V	
9.	a)	What is an Event? What are the various sources of Events? Explain the delegation event model of handling events with a JAVA program.	[7M]
	b)	What are the various components of Swing? Explain.	[5M]
		(OR)	
10.	a)	Explain with an example about JTree class in javax.swing package.	[6M]
	b)	Explain about the following layouts in AWT. i) FlowLayout ii) GridLayout iii) GridBagLayout	[6M]

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