Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– V(OLD) EXAMINATION – SUMMER 2019
Subject Code: 150704   **Date: 20/06/2019**
Subject Name: Object Oriented Programming With Java
Time: 02:30 PM TO 05:00 PM   **Total Marks: 70**
Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

			MARKS
Q.1	**(a)**	Define polymorphism with its need. Define and explain static and dynamic binding using program.	**07**
	(b)	What is an Inheritance? Explain its types with proper diagram and suitable example(s).	**07**
Q.2	**(a)**	Explain following keywords: this, super, final and static	**07**
	(b)	Write a program which checks whether entered number is prime or not?	**07**
		OR	
	(b)	Write a program to check that whether the name given from command line is file or not? If it is a file then print the size of file and if it is directory then it should display the name of all files in it.	**07**
Q.3	**(a)**	What is an Access Specifier? Explain it's with suitable example with appropriate output in detail.	**07**
	(b)	How can we open and read text file in JAVA? Explain your answer with suitable example. Also use command line argument for passing a filename.	**07**
		OR	
Q.3	**(a)**	Differentiate Abstract class and Interface with suitable example.	**07**
	(b)	What is a collection in JAVA? Differentiate HashMap and Hashtable with suitable example.	**07**
Q.4	**(a)**	Differentiate String with StringBuffer class. List out the methods available with String class and explain any five with proper JAVA code in detail.	**07**
	(b)	What is an Exception? List out various built-in exceptions in JAVA and explain any one Exception class with suitable example.	**07**
		OR	
Q.4	**(a)**	What is Multithreading? Explain Thread life cycle with proper JAVA code.	**07**
	(b)	What is Variable? How can we define variable in JAVA? Also list rules for valid variable names.	**07**
Q.5	**(a)**	Differentiate Applet Vs. Swing. Explain the life cycle of applet with suitable example.	**07**
	(b)	What is synchronization? Write a program that uses thread synchronization with proper output.	**07**
		OR	
Q.5	**(a)**	What do you mean by Event Delegation Model in JAVA? How the concept of adapter classes is used in event handling? Explain it with suitable example.	**07**
	(b)	Write down a code for passing an Echo message by using TCP in Network Programming.	**07**

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