

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
