

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER-IV (NEW) EXAMINATION – WINTER 2020

Subject Code:3140705**Date:24/02/2021****Subject Name:Object Oriented Programming -I****Time:02:30 PM TO 04:30 PM****Total Marks:56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a)	What is the difference between oop and procedural oriented language?	03
	(b)	Explain type-conversion in java.	04
	(c)	Explain class and object with respect to java.	07
Q.2	(a)	Difference between Nested if and multi-way if statements.	03
	(b)	What is constructor overloading?	04
	(c)	What are the data-types and operators available in Java?	07
Q.3	(a)	Explain access modifiers with Example.	03
	(b)	Explain following keywords 1) Static 2) Super	04
	(c)	Differentiate between final, finally and finalize. What will happen if we make class and method as final?	07
Q.4	(a)	Explain abstract class with example.	03
	(b)	Explain Primitive data type and wrapper class data types.	04
	(c)	Write a program to rise and handle divide by zero exception.	07
Q.5	(a)	Explain mouse and key event handler in JavaFX.	03
	(b)	Explain following controls 1) text-Area 2) scrollbar 3) checkbox 4) combo-box	04
	(c)	Write a method for computing x^y doing repetitive multiplication. X and y are of type integer and are to be given as command line arguments. Raise and handle exception(s) for invalid values of x and y.	07
Q.6	(a)	Explain following classes in JavaFX. 1) Color class 2) font class 3) Image and image view class	03
	(b)	What is Exception? Demonstrate how you can handle different types of exception separately.	04
	(c)	List and explain available type of constructors in java with example.	07
Q.7	(a)	Differentiate Text I/O and Binary I/O.	03
	(b)	Explain usage of class FileInputStream and FileOutputStream by giving an example.	04
	(c)	Explain Comparable and Cloneable interface.	07
Q.8	(a)	What is Collection? Explain list, stack, queue classes.	03
	(b)	How to access object via reference variable? Explain with example.	04
	(c)	What do you understand by thread? Describe the complete life cycle of thread.	07
