

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-V (OLD) • EXAMINATION – WINTER 2017

Subject Code: 150704

Date: 03-11-2017

Subject Name: Object Oriented Programming with Java

Time: 10:30 am to 01:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain basic features of JAVA. **07**
(b) What is constructor? How it is different from methods? How to define the constructor? **07**
- Q.2** (a) Explain different visibility modifiers. **07**
(b) Define and explain static and dynamic binding. **07**
- OR**
- (b) Explain super and final keywords with example. **07**
- Q.3** (a) Differentiate pass by value and pass by reference using example. **07**
(b) With the help of program show how to pass object as an argument of method. **07**
- OR**
- Q.3** (a) Explain java garbage collection. **07**
(b) Using program illustrate the method overriding concept. **07**
- Q.4** (a) What are the different ways to create thread? Explain with example. **07**
(b) What is interface? How it is different from abstract class? **07**
- OR**
- Q.4** (a) What is the need of exception handling? Explain exception handling mechanism in detail. **07**
(b) What is multithreading? Explain life cycle of thread with example. **07**
- Q.5** (a) Explain the use package with example. **07**
(b) Differentiate the following: **07**
1. Text I/O and Binary I/O
2. String class and StringBuffer class
- OR**
- Q.5** (a) Explain life cycle of an applet. Also illustrate how to provide parameters to applet through html. **07**
(b) Write a program to create user define exception MyException. Define a class ExceptionDemo that has a method named compute() which throws a MyException object, when compute()'s integer parameter is greater than 10. **07**
