

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Subject Code: 2150704

Date: 05/12/ 2015

Subject Name: Object Oriented Programming using JAVA

Time: 10:30am to 1:00pm

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) Write a program that creates and initializes a four integer element array. Calculate and display the average of its values. **07**
- (b) Write a java program to do sum of command line argument passed two Double numbers. **07**

- Q.2** (a) Define time class with hour and minute. Also define addition method to add two time objects. **07**
- (b) Explain use of Linked List collection class with example. **07**
- OR**
- (b) Write a program to create circle class with area function to find area of circle. **07**

- Q.3** (a) With example explain use of finally in exception handling. **07**
- (b) Write an application that searches through its command-line argument. If an argument is found that does not begin with and upper case letter, display error message and terminate. **07**

OR

- Q.3** (a) Explain garbage collection and finalize method in JAVA. **07**
- (b) Explain use of throw in exception handling with example. **07**

- Q.4** (a) Explain constructor overloading using example. **07**
- (b) Explain multi threading in java using example. **07**

OR

- Q.4** (a) Explain method overriding with example. **07**
- (b) Write an application that reads a file and counts the number of occurrences of digit 5. Supply the file name as a command-line argument. **07**

- Q.5** (a) Draw use case diagram for Library Management System. **07**
- (b) Draw class diagram for online restaurant system. **07**

OR

- Q.5** (a) Draw sequence diagram for book issue process of library. **07**
- (b) Draw class diagram for ATM. **07**
