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**

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