Seat No.:	Englment No
Seal NO.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

a		- SEMESTER-V (NEW) EXAMINATION – WINTER 2017	V4.4
•			3/11/2017
•		ne: Object Oriented Programming using JAVA	. 1 . 50
Time: 1 Instructio		AM TO 01:00 PM Total M	Iarks: 70
ınsırucuo 1.		empt all questions.	
2.		ke suitable assumptions wherever necessary.	
3.		res to the right indicate full marks.	
Q.1	(a)	Discuss public, private and protected access modifiers.	03
	(b)	What is constructor? Explain constructor overloading with example.	04
	(c)	Discuss Following with example:	07
		(i) Super Keyword	
		(ii) Final Keyword	
Q.2	(a)	Explain usage of class FileInputStream and FileOutputStream by giving an example.	03
	(b)	Draw and Explain Thread Life Cycle.	04
	(c)	Explain Dynamic method dispatch with proper example. OR	07
	(c)	Create a class called Student. Write a student manager program to manipulate the student information from files by using the BufferedReader and BufferedWriter.	07
Q.3	(a)	List features of Java. Briefly explain any two.	03
Q.C	(b)	(i) Create a two dimensional array. Instantiate and Initialize it.	04
	(,,,	(ii) Differentiate String class and StringBuffer class.	
	(c)	Explain the words 'static' and 'this' with the help of example. OR	07
Q.3	(a)	List and Explain Methods for Inter-thread communication (cooperation).	03
	(b)	Explain package and its use with appropriate example.	04
	(c)	Write a program for chat application using TCP.	07
Q.4	(a)	Discuss exception and error.	03
	(b)	Differentiate between Method overloading and Method overriding.	04
	(c)	Define the following terms: Aggregation, Abstract Class, Generalization, Rectification, Constraints, Package, Metadata.	07
0	(a)	OR Write a note on 'Collection in JAVA'. Also discuss List and	03
Q.4	(a)	Enumeration Interface.	
	(b)	Discuss link and association in UML with diagram.	04
	(c)	Explain the importance of exception handling in java. Which key words are used to handle exceptions? Write a program to explain the use of these keywords.	07
Q.5	(a)	Write a program to find whether the given string is palindrome or not.	03
	(b)	Draw sequence diagram for book issue process of library.	04
	(c)	Explain activity diagram with the help of an example.	07

OR

Q.5	(a)	Explain interface and its usage.	03
	(b)	Draw use case diagram for Library Management System.	04
	(c)	Explain Nested States. Draw the Nested states diagram for the	07
		phone line.	
