Seat No.:	Enrolment No.

Subject code: 1720109

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – WINTER 2012

Date: 03/01/2013

•		Name: Object Oriented Programming	•
		.30 am – 01.00 pm Total Marks: 7	0
Instr			
		Attempt all questions. Make quitable assumptions wherever peasses.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
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Q.1	(a)	What are the approaches to the software design? List the benefits of the object oriented programming.	07
	(b)		07
Q.2	(a)	Describe the following.	07
		 Application framework in windows environment Feature of Java 	
	(b)	Define a circle object in the Java with necessary data and function members including constructors. Use it in main to sort the array of circle objects in order of radius.	07
	<i>(</i> 1)	OR	0=
	(b)	Write a Java program to generate first five Pythagorean triplets ($x^2+y^2=z^2$).	07
Q.3	(a) (b)	What is inheritance? Explain it with respect to Java with example. Write a simple Java application having a button "OK" which when pressed the application is closed.	07 07
		OR	
Q.3	(a) (b)	What is event handling? How it is done in Java? Give an example. Write a GUI program in Java to add two numbers. Use appropriate controls.	07 07
Q.4	(a)	What is an applet? Explain the applet lifecycle.	07
ζ	(b)		07
Q.4	(a)	What do you mean by exception handling? Explain the try-catch-finally statement with example.	07
	(b)	Explain the string handling in Java with suitable example.	07
Q.5	(a)	What do you mean by software requirements? How do you identify them? Explain in detail.	07
	(b)	Explain the designing of general class structure for an application. OR	07
Q.5	(a)	Explain the role of the object programming in development of web applications.	07
	(b)	What do you mean by software design? Give the design principles.	07
