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Seat No.:	Enrolment No.

		EME	SUJARAT TECHNOLOGICAL UNIVERSITY STER- II (Old course) • REMEDIAL EXAMINATION – SUMMER 20	
·			e: 1720109 Date:16/05/2	2015
Sub	ject	: Na	me: Object Oriented Programming	
Time	: 02	2:30 p	om to 5:00 pm Total Marks: 7	0
Instru	ıctior	ıs:		
		Mak	mpt all questions. The suitable assumptions wherever necessary. The res to the right indicate full marks.	
Q.1	(a)	i)	What do you understand by object model?	03
		ii)	What are the interfaces? What is their role in object model?	04
	(b)	i)	List and explain any three features of object oriented programming.	03
		ii)	What are the functions of the following java keywords?	04
			static, super, finally, synchronized	
Q.2	(a)	i)	Explain garbage collection mechanism.	03
		ii)	What are data types? What are different data types supported in Java?	04
	(b)		What is constructor? Explain constructor overloading with an example. OR	07
	(b)		What is inheritance? Explain method overriding by giving an example?	07
Q.3	(a)	i)	What do you mean by exception? How exceptions are handled in Java application?	03
		ii)	Define the terms: abstract class and abstract method. What is the difference between an abstract class and interface?	04
	(b)	:/		03
	(b)	i)	What do you mean by multithreading? How the threads are created in java application?	US
		ii)	Explain the purpose of following java key words: super, final OR	04
Q.3	(a)	i)	What is the difference between checked and unchecked exception? List at least two exception classes for each.	03
		ii)	Write a java program to explain how interface are implemented.	04
	(b)	i)	List and briefly explain the access specifiers.	03
	(0)	ii)	What is thread synchronization? Explain the use of following methods:	03
		11)	join(), wait() and notify()	V T
Q.4	(a)	i)	What is an applet? How it differs from application?	03
		ii)	What is AWT? What is the role of layout manager in AWT?	04
	(b)		Write a GUI java application that reads the date of birth of a person	07
			from text field and calculates and display age of person when the button is clicked.	
			OR	
Q.4	(a)	i)	List and explain the applet life cycle methods.	03
	()	ii)	What are the listeners? What is their role in event delegation?	04
	(1)	-/		^ -

			OR	
Q.4	(a)	i)	List and explain the applet life cycle methods.	03
		ii)	What are the listeners? What is their role in event delegation?	04
	(b)		Write an applet program which draws a circle and fills the color in it. Where radius and name of color will be entered in text fields.	07
Q.5	(a)		What do you mean by software design? Discuss the design principals.	07
	(b)		Explain the string handling in Java with suitable example.	07

OR

- Q.5 (a) Explain the role of the object oriented programming in development of web applications. Discus various web objects.
 - (b) Write a java program that reads the paragraph form text file and display 07 the number of words in it.
