Sea	ıt No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		MCA - SEMESTER-III • EXAMINATION – WINTER • 2015	
Su	bject	t Code: 630002 Date: 05-01-2016	
Su	bject	Name: Fundamentals of Java Programming	
	-	10:30 am - 01:00 pm Total Marks: 70	
	tructio	•	
	1.	Attempt all questions.	
	2.	1 0	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Do as directed	07
<b>V.1</b>	(4)	(1) What will be the result of the expression a%b when a and b are of type int	07
		and their values are $a = -17$ and $b = -6$ ?	
		(2) 15 & 29 = ?	
		(3) java supports destructor - true / false	
		(4) String is a immutable object in java - true / false	
		(5) in java class inside class is known as ?	
		(6) isLeapYear() method is of which class?	
	<b>(b)</b>	(7) Which is the last method of applet life cycle? Explain the features of java in detail	07
	<b>(b)</b>	Explain the leatures of Java III detail	U/
Q.2	(a)	(1) Discuss enum type with example	04
	<b>~</b> \	(2) What are Wrapper classes? Explain boxing and unboxing.	03
	<b>(b)</b>	Explain life cycle of Applet with proper example	07
	<b>(b)</b>	OR  Define peakage Explain the store to greate and import a peakage	07
	(D)	Define package. Explain the steps to create and import a package.	
Q.3	<b>(a)</b>	Explain the use of abstract and final with reference to variable, method and	07
	<b>(1.)</b>	class with example	<b></b>
	<b>(b)</b>	Explain Event Delegation Model with example.	07
Q.3	(a)	OR Explain thread life cycle with example	07
Q.J	(b)	What is Layout Manager? Explain the different types of layout in details.	07
0.4			
Q.4	(a)	What is an event listener? List down all event listener and use it for which	07
	<b>(b)</b>	component. What is collection framework? Discuss Map interface with example.	07
	(D)	OR	U/
Q.4	(a)	Discuss BufferedWriter and the BufferedReader class of java I/O with example.	07
	<b>(b)</b>	(1) Differentiate AWT and Swing.	04
	` ,	(2) Write a short note on matcher class.	03
Q.5	(a)	Explain Random class and Date class with example	07
Q.S	(b)	Explain the concept of Random Access File with example	07
	(6)	OR	07
Q.5	(a)	Write a program To draw a circle in centre of the applet. Circle remains in	07
	. ,	centre when applet resized.	
	<b>(b)</b>	Write a program To create two different threads. One thread to display even	07
		numbers between 1 to 100 at every 2 second and other thread to display odd	
		numbers between 1 to 100 at every 4 seconds.	

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