Subject Code: 630002

Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER-III • EXAMINATION – SUMMER- 2014

Date: 29-05-2014

Ti	me: 0 tructio 1. 2.	Attempt all questions.	
Q.1	(a) (b)	 Explain any three features of Java. Discuss pass by value and pass by reference in Java with proper example. Describe any three methods of Pattern class. Explain the use of synchronized keyword with example. 	03 04 03 04
Q.2	(a) (b)	Explain Event delegation model with proper example. 1. What is thread? Differentiate between daemon and non-daemon threads. 2. Discuss enum type with example. OR	07 03 04
	(b)	 What is stream? Differentiate between Byte Stream and Character Stream. Explain the use of anonymous inner class with example. 	03 04
Q.3	(a) (b)	 Differentiate between abstract classes and interfaces. Explain the use of finalize method with example. What is exception handling? Discuss the uses of "try", "catch" and "finally" with example. 	03 04 07
		OR	
Q.3	(a)	What is JOptionPane? Discuss in brief the methods of JOptionPane for showing different kinds of Dialog.	07
	(b)	What is Collection framework? Explain the methods of Iterator with example.	07
Q.4	(a) (b)	Explain the uses of static variables and methods with example. What is Object class? Explain the hashCode(), equals() and toString() methods of Object class with example.	07 07
Q.4	(a)	OR Define type conversion. Explain the narrowing, widening and mixed conversion for numeric types with example.	07
	(b)	What is method overriding? Explain the uses of this and super keyword with example.	07
Q.5	(a)	Define Multi-threading. State two different ways for creating new thread of execution with appropriate code.	07
	(b)	Make a frame that contains three scroll-bars for "Red", "Green" and "Blue" color. As user adjust the value in the scroll-bars, the background color of the frame is set according to the adjusted value. OR	07
Q.5	(a)	Write a program that copies all the content from one file to another. Pass the file names using command line argument.	07
	(b)	What is Applet? Discuss in brief different attributes of Applet tag.	07

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