Seat No.:	Enrolment No.
Beat 1 (6):	Emonited 1101

Subject Code: 630002

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-III • EXAMINATION – SUMMER 2017

Date: 09-06-2017

Tir	ne: 02	Name: Fundamentals of Java Programming 2:30 pm - 05:00 pm Total Marks:	70
Inst	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	1. Explain the narrowing, widening and mixed conversion for numeric types in java.	03
	(b)	 Differentiate between Comparable and Comparator interfaces. Discuss the use of Matcher class. Differentiate between daemon and non-daemon threads. 	04 03 04
Q.2	(a)	What is Layout? List out different layouts and explain BorderLayout with example.	07
	(b)	 Define the various states of thread life cycle. Discuss inner class with example. 	03 04
	(b)	OR 1. What is Random access File? Discuss any two important methods of it. 2. Differentiate between checked and unchecked exception.	03 04
Q.3	(a)	 What are the Wrapper classes? Explain boxing and unboxing conversions. Explain the use of finalize method with example. 	03 04
	(b)	What is exception handling? Discuss the uses of "throw", "throws", "try", "catch" and "finally" keywords.	07
		OR	
Q.3	(a) (b)	Explain the use of adapter classes with proper example. What is collection framework? Discuss Map interface with example.	07 07
Q.4	(a) (b)	Explain the uses of static variables and methods with example. Differentiate String and StringBuffer class. Explain the trim(), substring() and contains() methods of String class.	07 07
		OR	
Q.4	(a) (b)	Discuss about initializer blocks and class initializer blocks. Define package. State the steps to create and import a package using suitable example.	07 07
Q.5	(a)	Define Thread. Explain the need of thread synchronization with proper real life example.	07
	(b)	Create a Frame which contains some buttons, showing the names of various Colors. Use event handling to set background color of the Frame depending on the button selected.	07
		OR	
Q.5	(a)	Write a program that compare the contents of two files and display appropriate message such as files are equal or not equal. Pass the file names using command line argument.	07
	(b)	What is Applet? Discuss various life cycle methods of an Applet.	07
