Subject Code: 630002

Subject Name: Fundamentals of Java Programming

Date:03-06-2016

## **GUJARAT TECHNOLOGICAL UNIVERSITY** MCA - SEMESTER- III EXAMINATION – SUMMER 2016

Subject Ivalue: Fundamentals of Java Programming Togramming   Time: 02.30p.m. To 05.00p.m. Total Marks: 7   Instructions: 1. Attempt all questions.   2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.			70
Q.1	(a)	Explain the features of java in detail. Emphasis on why java is platform independent?	07
	<b>(b)</b>	Explain various type conversion mechanisms available in Java.	07
Q.2	(a)	List the various elements that can be defined within a java class. Briefly explain each.	07
	<b>(b)</b>	Explain the process of method binding and variable binding with example. OR	07
	<b>(b)</b>	Explain the process of creation and use of Arrays in java. Give Example.	07
Q.3	(a) (b)	Explain the importance of interface. Differentiate it with abstract class. Explain the process of creating and using user defined package in java. Give Example.	07 07
		OR	
Q.3	<b>(a)</b>	Differentiate between String and String Buffer Class. Explain any 3 methods of String class.	07
	(b)	Give differences between Comparable and Comparator interface. Also give example.	07
Q.4	(a) (b)	Give a list of available wrapper classes and explain any two in detail. Explain exception handling mechanism of java with example.	07 07
		OR	
Q.4	(a) (b)	Define enum type. Explain enum type with example. Define custom exception. Differentiate between checked and unchecked exception (Reported and Unreported exception).	07 07
Q.5	(a) (b)	Discuss how thread can be created and used in Java. Give example. Explain piped stream and object stream. <b>OR</b>	07 07
Q.5	(a) (b)	Explain character stream class hierarchy. Explain thread synchronization.	07 07
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