example.

Q.3 (B)

Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- III EXAMINATION - WINTER 2018

Subject	Code: 3630005 Date: 09-01-201	ate: 09-01-2019		
Time: 10 Instruction 1. 2.	Name: Programming with Java 0.30 am to 1.00 pm Total Marks: 70 as: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.			
Q.1(A)	Specify whether the following statements are True or False. If False then	07		
Q.1 (B)	 correct it. Each object has its own copy of the static variables defined in the class. Always a super class constructor must execute before a subclass constructor. A class can extend from more than one super class. We can create our own sub-class of the java.lang.Math class. To call the parent class constructor explicitly, super() and this() both are use together. The size of char data type is 1 byte. The toString() method can be overridden to be protected. Attempt the following Class defined in Java without using extends keyword having parent(super) class. Why? It is not compulsory to import java.lang package in Java source file. Why? After execution of following statements, value of b is not 333. Why? int i = 333; byte b = (byte)i; Discuss the features of Java Explain importance of Constructor 	01 01 01 02 02		
Q.2(A) Q.2 (B)	What are Wrapper classes? Explain boxing and unboxing with example Define package. Explain the steps to and important and create package	07 07		
	OR			
Q.2 (B)	Explain life cycle of Applet with proper example			
Q.3(A)	1.Explain the difference between subtypes and supertypes with example 03			
Q.3 (B)	2. Differentiate character stream and byte stream. What is an exception? Explain different types is an exception? Discuss "try", "catch", "finally", "throw" and "throws" with suitable java code OR			
Q.3 A)	Explain the difference between runtime errors and compile time errors with 0			

Difference between static and instance variable with example.

07

Q.4 (A)	1. To display "Hello India" on frame.		
	* •	eekdays along with its description using enum data type.	03
	Weekdays	Description	
	Sunday	Sun	
	Monday	Moon	
	Tuesday	Mars	
	Wednesday	Mercury	
	Thursday Friday	Jupiter Venus	
	Saturday	Saturn	
Q.4 (B)	Write program		0.4
		ntents of text file on console if file exist. Provide file name from	04
	command-line a		03
	,	ge of values given as a command-line arguments. Also write tion handling code	03
		OR	
Q.4 (A)	What is difference between Vector and Hashtable class? How the Enumeration interface is useful in Java explain with code?		
Q.4 (B)	1. What is	container and component class in Java? Specify different types onents with its events?	04
	2. Explain	final, native and synchronized method modifier.	03
Q.5 A)	What is CLASS	PATH? How it is important?	07
Q.5 (B)		How different way thread is created in Java? Discuss the Thread suitable example of java program code.	07
		OR	
Q.5(A)	Write program for following.		
	1. To copy	file using character stream. Provide source file name and	
	destinati	on file name using command-line arguments.	
	2. To create	e two different threads. One thread to display odd numbers	03
		1 to 40 at every 1 second and other thread to display even	
		between 1 to 20 at every 2 seconds.	
$\mathbf{Q.5}\left(\mathbf{B}\right)$	Explain final, na	ative and synchronized method modifier.	07
