GUJARAT TECHNOLOGICAL UNIVERSITY MCA– SEMESTER –III EXAMINATION –SUMMER-2019

•			Date: 17-05-2019	
e:02.3	80 pm to		Total Marks: 70	
1. 2.	Attem Make	suitable assumptions wherever necessary.		
(a)	1. 2. 3. 4. 5. 6.	is the cosmic super class. What do you understand by Functional interface? null is a keyword in java. [T/F] (With reason) It is not mandatory that a class must be abstract when a as abstract in java.[T/F] (With reason) Static methods can be called with its 'this' reference. [The Constructors of enum type are always private.[T/	method is declared T/F] (With reason)	07
(b)	1.	<pre>output of the program. import java.util.*; package p1; public static void main(String ar[]) { int a=50, b=0; int c; try { c=a/b; System.out.println(c); } System.out.println("Hello"); catch(Exception e) { System.out.println(e); } catch(ArithmeticException e) {</pre>		04
	bject ne:02.3 truction 1. 2. 3. (a)	bject Name a:02.30 pm to tructions: 1. Attem 2. Make 3. Figure (a) Do As 1. 2. 3. 4. 5. 6. 7.	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. (a) Do As Directed : 	<pre>bject Name: Object Oriented Programming in JAVA er02.30 pm to 5.00 pm Total Marks: 70 fructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. (a) Do As Directed : 1 is the cosmic super class. 2. What do you understand by Functional interface? 3. null is a keyword in java. [T/F] (With reason) 4. It is not mandatory that a class must be abstract when a method is declared as abstract in java.[T/F] (With reason) 5. Static methods can be called with its 'this' reference. [T/F] (With reason) 6. The Constructors of enum type are always private.[T/F] (With reason) 7. What is the use of Varargs in java (b) 1. Find errors (if any), solve errors and write code again. Also give the output of the program. import java.util.*; package p1; public static void main(String ar[]) { int a=50, b=0; int c; try f c=a/b; System.out.println("Hello"); catch(Exception e) { System.out.println("Hello"); catch(Exception e) { System.out.println(e); } } </pre>

2. What is difference between '==' and 'equals()'? Give appropriate 03 example for the same.

Q.2	(a) (b)	List and explain Java Buzzwords in detail. Explain Character Stream and Byte Stream. Also write program to copy content of one file to another file with using command line arguments. OR	
	(b)	 Explain initializer block and class initializer block in detail. Give difference between abstract class and interface. 	04 03
Q.3	(a) (b)	 Explain the concept of thread synchronization in brief. Give difference between String and StringBuffer. What is multiple inheritance? How multiple inheritance is supported in java? 	04 03 07
	(0)	Explain it with suitable example. OR	07
Q.3	(a)	1. Explain instance of and bitwise operator in java by giving a suitable example.	04
	(b)	2. Give difference between Comparable and Comparator interfaces.	
Q.4	(a) (b)	What is thread? Explain thread life cycle in detail with diagram. What is package? How to create and import packages in java? Explain it with suitable example	07 07
Q.4	(a)	OR What is exception? Explain exception handling mechanism with try, catch and	07
	(b)	finally blocks. Give Suitable example of custom exception.	
Q.5	(a)	What is lambda expression? How to create lambda expressions? Give advantages of Lambda expression. Also give a suitable example.	07
	(b)	What is JDBC? Explain types of driver available in JDBC. Write steps of JDBC and MySQL connectivity.	
Q.5	(a)	OR What is generics? What is the use of generics? Also explain how to define generic class with suitable example.	07
	(b)	Explain top level nested class and local class in detail with e.g.	07
