Sear	t No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
Cubi	. at a	BE- V th SEMESTER-EXAMINATION – MAY/JUNE - 2012 ode: 150704 Date: 05/06/2012	1
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Time	: 02:	Jame: Object oriented programming with Java 30 pm – 05:00 pm)
Instr			
2.	Mak	empt all questions. Ke suitable assumptions wherever necessary. Bures to the right indicate full marks.	
Q.1	(a) (b)	Explain features of JAVA . Explain interface in JAVA. How do interfaces support polymorphism?	07 07
Q.2	(a)	Explain Exception handling in JAVA. Write an application that generates custom exception if any value from its command line arguments is negative.	07
	(b)	Why synchronization is required in multithreaded programming and how can we implement it in program?	07
	(b)	OR Explain Thread Life Cycle in detail. Write a code to create Thread in JAVA.	07
Q.3	(a)	Write a program using BufferedInputStream, FileInputStream, BufferedOutputStream, FileOutputStream to copy Content of one file File1.txt into another file File2.txt .	07
	(b)	Describe abstract class called Shape which has three subclasses say Triangle,Rectangle,Circle . Define one method area() in the abstract class and override this area() in these three subclasses to calculate for specific object i.e. area() of Triangle subclass should calculate area of triangle etc. Same for Rectangle and Circle	07
		OR	
Q.3	(a)	Write a program to display the bytes of a file in reverse sequence. Provide the name of the file as a command line argument. (Use RandomAccessFile)	07
	(b)	Write a program that illustrates interface inheritance. Interface P is extended by P1 and P2 . Interface P12 inherits from both P1 and P2 . Each interface declares one constant and one method. class Q implements P12 . Instantiate Q and invoke each of its methods. Each method displays one of the constants	07
Q.4	(a) (b)	Differentiate Applet and Application. Differentiate String class and StringBuffer class with explanation of its	07 07
		methods. OR	

Write an applet that contains three buttons OK, CANCEL and HELP and one 07 **Q.4** textfield. if OK is pressed shown on the status bar-"OK is pressed" and the text field should turn red. When CANCEL is pressed -shown on the status bar-" CANCEL is pressed "and text field should turn green. When HELP is pressedshown on the status bar-"HELP is pressed" and the text field should turn yellow. **07**

(b) Explain Applet life cycle with demo program.

Q.5 (a) Explain package in java. List out all packages with short description. 07

(b) Differentiate Method Overloading and Method Overriding with example. **07**

OR

Q.5 (a) Explain Event Handling in java and describe methods of mouse event and key **07**

(b) Explain Generics in java with demo program.

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