GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– V • EXAMINATION – WINTER 2016

Subject Code: 150704   **Date: 17/11/2016**
Subject Name: Object Oriented Programming with Java
Time: 10.:30AM – 01:00PM
      Total Marks: 70
Instructions:
    1. **Attempt all questions.**
    2. **Make suitable assumptions wherever necessary.**
    3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain characteristics of OOP ?	**07**
	(b)	Explain Dynamic Method Dispatch with example	**07**
Q.2	**(a)**	Difference between method overloading and method overriding with suitable examples.	**07**
	(b)	Explain : (1) Final (2) Finally (3) Finalize	**07**
		OR	
	(b)	Explain (1) Static (2) Super (3) throw (4) throws	**07**
Q.3	**(a)**	Explain Exception handling in JAVA. Write an application that generates custom exception if any value entered from command line arguments is greater than 100.	**07**
	(b)	Explain life cycle of an applet. Also illustrate how to provide parameters to applet through html.	**07**
		OR	
Q.3	**(a)**	Differentiate Abstract class and interface with suitable example.	**07**
	(b)	Explain Delegation Event model. Also Explain use of Adapter class.	**07**
Q.4	**(a)**	Explain Life cycle of Thread. Describe wait(), notify() and notifyall().	**07**
	(b)	Differentiate (i) Enumeration and Iterator. (ii) Vector and Array	**07**
		OR	
Q.4	**(a)**	Write a java program which read source file and destination file name and copy the content of source file to destination file.	**07**
	(b)	Write a complete program to have a GUI based simple calculator in a frame supporting addition & subtraction. There are buttons for 0 to 9 digits and for different arithmetic operations.	**07**
Q.5	**(a)**	Write short note on : Network programming in Java	**07**
	(b)	Explain package in java. List out steps to create user defined package with one example.	**07**
		OR	
Q.5	**(a)**	Write an application that executes two threads. One thread displays "Welcome" every 1000 milliseconds & another thread displays "Good Bye" every 5000 milliseconds. Create the threads by implementing the Runnable interface.	**07**
	(b)	Name three types of layout managers and briefly explain their operations.	**07**

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