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GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER - II • EXAMINATION - SUMMER • 2013

Sul	bject	code: 1720109 Date: 07-06-2013	
	•	Name: Object Oriented Programming 0.30 am – 01.00 pm Total Marks: 70	
		tions:	
		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Define the inheritance and polymorphism and list their importance in object oriented programming.	07
	(b)	Explain the following: (1) Objects and classes (2) Benefits of OOP.	07
Q.2	(a)	Explain the Windows Application Framework and list the important classes in its class library.	07
	(b)	Write an object oriented program in Java to find the smallest from an array of 10 elements.	07
		OR	
	(b)	Define a class to represent bank account with name of holder and balance with necessary constructors and methods. Use it to show the balance when name is given.	07
Q.3	(a)	What is a role of constructors? What are different types of constructors in Java? Give examples and show their use.	07
	(b)	Assume that base class represents the point having x and y coordinates. Extend it to represent 3D point with z coordinate and use to in main program. OR	07
Q.3	(a)	What is an interface? Give an example. How it differs from class? Show the use of interface.	07
	(b)	Explain the various types of exceptions in Java and their handling.	07
Q.4	(a) (b)	What is an event? Explain the Java event handling with appropriate example. Explain the various thread methods and give the importance of thread priorities.	07 07
		OR	
Q.4	(a) (b)	Explain the following in Java: (1) Package (2) Applet. List and explain the use of Layout managers in Java.	07 07
Q.5	(a) (b)	Explain the use of OOP in Web Application development with example. Write a GUI program in Java to find the larger of two numbers. OR	07 07
Q.5	(a) (b)	Give and explain the notations used in software analysis. Write a Java program to read and display the contents of a text file.	07 07