

DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY B.TECH. SEMESTER VI [CE]

SUBJECT: (CE-620) OBJECT ORIENTED SOFTWARE ENGINEERING

	Examination Date Time		: Second Sessional : 17/02/2017 : 01:00 PM TO 2:15 PM	Seat No Day Max. Marks	: : Friday : 36	
1. 2. 3. 4.	The syn	to the righ mbols used e suitable d	at indicate maximum marks for that of carry their usual meanings. lata, if required & mention them cleans as wherever necessary.	•		
Q.1	Do a	as directe	ed.			
	(a) (b)	State the 1. Com	CRC card of Customer class for main purpose for the following apponent Diagram loyment Diagram		em.	[2] [2]
	(c)	State th	ne advantages and disadvantages. Name the technique which ca			[2]
	(d) (e) (f)	What ar	ample of Event within a state are Patterns? Why do we use it trade off priorities?			[2] [2] [2]
Q.2	Atter (a)	accounts with respective electricity board. The system permits only registered users to pay their electricity bills online. The system also allows users to view past payments, change account information, file complaints and download bills. Identify any two complex interaction scenarios and draw sequence diagrams for both				[6]
	(b)	software related v 1. 2. 0	the term "package" and state e development. Explain the fo with packages: Acyclic Dependency Principle Common Closure Principle	llowing principles and o		[6]
	(c)	A softw should s vehicle	Common Reuse Principle vare is needed for a service state support the features like jobservice history and spare part interaction scenarios and os.	card generation, invoices information managem	e generation, display ent. Identify any two	[6]
Q.3	(a)	the A but mode, to The set selects in hours, Within to is pressed.	ider a simple digital watch watton and the B button. The watch watch displays hours an time mode has two submode modes. Each time it is pressed set matches submodes, the B button ad ed. Buttons must be release e state transition diagram for a	atch has two modes of o d minutes, separated best set hours and set m , the mode advances in a inutes, disp vances the hours or min d before they can gen	peration, display time by a flashing colon. inutes. The A button sequence: display, set play etc. utes once each time it erate another event.	[3]

ii.)What are the techniques to handle global resources during system design?

[3]

(b) Draw activity diagram for any two activities for the system described in Q.2 [6] (a).(Electricity Bill Payment)

OR

- Q.3 (a) i.) Draw State diagram for automatic beverage dispenser. Machine accepts coins and dispenses beverages based on user's selection. Draw state diagram for beverage dispenser object. Assume various states, show events and activities on each transition.
 - ii) What is the difference between Layering and Partitioning? Explain with [2] example.
 - (b) Explain different ways of managing Software Control Strategy in design phase of **[6]** the system.