

IQRA National University

FINAL EXAM

OBJECT ORIENTED SYSTEM ANALYSIS AND DESIGN

SUBMITTED TO:

SIR FAHEEM ULLAH

SUBMITTED BY:

Mian Farooq Azam

ID: 13348

BSSE 8th SEC A Last Date: 23rd June 2020

Question# 1:

Use Case Diagram:

0 Name: Mian Faroay Azam id: 13348 Subject: 00SAD Date: 23/6/2020 Firet-Exam Question No #1 Vending machine select beverage product 4 included (select snack) (Lindude >> (searching Yenter code coins (cancel) 2 (Unclude)) customer (confirm) Technici (Linclude) (relerive coins - 011 Fix recieve item Lexberdy Herterdy; customer machine Care products

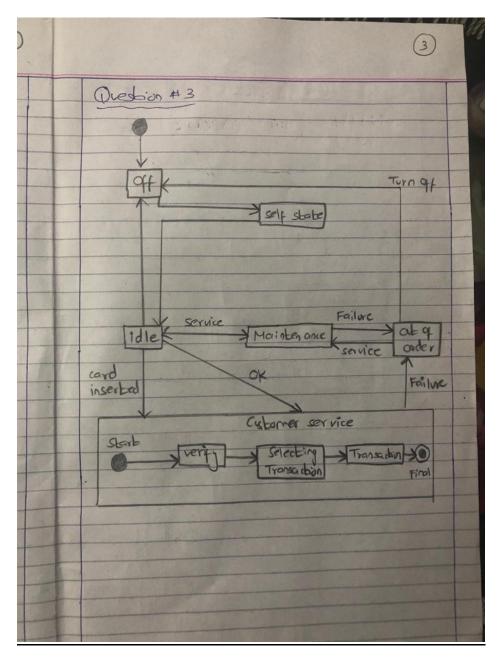
Question# 2:

Sequence Diagram:

. D	
Question No #12	
User ATM SERVER BANK	
1 1. inserte 12. verify card	
K3. OK	-
y. favaid	
ks. ejert card	
6° Enter pin Pin	1
HT VENTED A	
18: 19:8 lid	
9. Eject card	i i
10 Enter Paynent	
1 III. Transaction	
	-
12° anount	++
KIB. OK	T
1 Amayat	++
Lis. insufficient	T
13. Eyert card	++
The the area in the second sec	

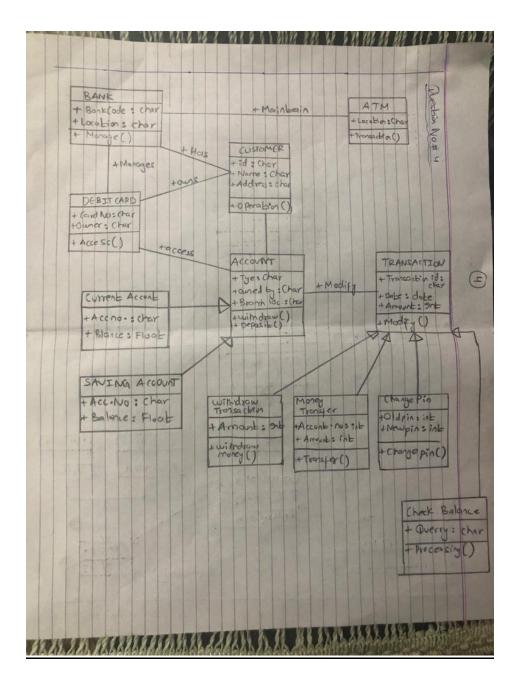
Question# 3:

State Chart Diagram:



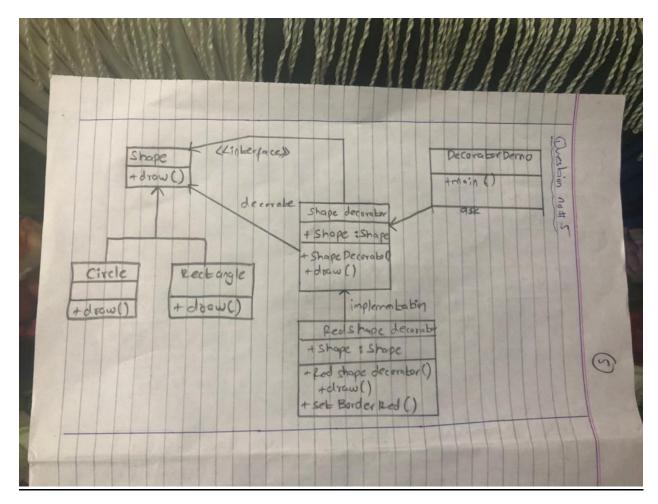
Question# 4:

Class diagram:



Question# 5:

Design Pattern:



Pattern used is decorator pattern, which allows user to add new functionality without disturbing the structure.