

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name : System Analysis and Design & Unified Modeling Language

Subject Code : 4TE04SAD1

Branch : B.Tech (CE)

Semester :4

Date : 29/10/2018

Time : 10:30 To 01:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Attempt the following all questions:	(14)
	a) What is System Boundary?	1
	b) What is logical DFD?	1
	c) _____ System is isolated from environmental influence. In reality, a completely such system is rare.	1
	d) Analyst should be an intelligent salesperson. True or False?	1
	e) What is SSADM?	1
	f) What is Black Box testing?	1
	g) Write an equation for Return of Investment.	1
	h) _____ is combination of English language and structured programming. And therefore this level tool provides environment for representing program logic with the natural English language.	1
	i) What is gray-box testing?	1
	j) _____ is important because SAD says "Equipment do not cry but people do."	1
	k) What is Regression Testing?	1
	l) Draw UML Notation for OBJECT, CLASS, Link, Association	1
	m) What is Feasibility Study?	1
	n) What is Data Dictionary?	1

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
	a) Explain Open and Close System.	7
	b) Discuss the Basic Elements to be considered for designing a Perfect System.	7
Q-3	Attempt all questions	(14)
	a) Differentiate between Formal System and Informal System.	4



	b)	Analyst is called an Agent of Change. Why?	4
	c)	List and explain Characteristics of System.	6
Q-4		Attempt all questions	(14)
	a)	Write a detailed note on : SDLC.	4
	b)	What is System? From where the word ‘System’ derived? Write a short note on ‘System’.	4
	c)	Draw Class Diagram for College Management System.	6
Q-5		Attempt all questions	(14)
	a)	Explain knowledge and qualities required to become an Analyst.	7
	b)	Draw Sequence Diagram for Telephone Landline.	7
Q-6		Attempt all questions	(14)
	a)	What are Fact Finding techniques? Explain its all types.	7
	b)	Draw Activity Diagram for ATM machine.	7
Q-7		Attempt all questions	(14)
	a)	Differentiate Followings- (1) Direct and Indirect Cost (2) Tangible and Intangible Benefit.	4
	b)	Explain Verification and Validation.	4
	c)	Draw Use case diagram for Hospital Management System.	6
Q-8		Attempt all questions	(14)
	a)	Explain any Four types of Testing.	4
	b)	Draw state Diagram for Chess.	4
	c)	What is Decision Table? Draw Decision Table for-“Give a Discount of 5% if the Customer pays in advance or if the purchase is for Rs. 10,000 or more and customer is regular customer.”	6

