

# C.U.SHAH UNIVERSITY

## Summer Examination-2019

**Subject Name :** System Analysis and Design

**Subject Code :** 4CS03SAD1

**Branch:** M.Sc.C.A. & I.T. (Integrated)

**Semester :** 3

**Date :** 13/03/2019

**Time :** 02:30 To 05:30

**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.
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**Q-1**

**Attempt the following questions:**

**(14)**

- a) System Study involves
  - a. identifying current deficiencies and establishing new goals
  - b. documenting the existing system
  - c. study of an existing system
  - d. all of the above
- b) In Prototyping
  - a. 4GLs are used
  - b. BASIC is used
  - c. COBOL is used
  - d. system is documented
- c) The starting point for development of an MIS is
  - a. purchase of a mini computer
  - b. a distributed database management
  - c. the system has a large number of PCs and a LAN
  - d. identification of business processes that are the essence of the business
- d) Which are the tools not used for System Analysis
  - a. Flowcharts
  - b. Decision table
  - c. System Test Data
  - d. Data Flow Diagram
- e) Decision tree uses
  - a. nodes and branches
  - b. pictorial depiction of alternate conditions
  - c. consequences of various depicted alternates
  - d. All of the above
- f) A decision table facilitates conditions to be related to
  - a. Tables
  - b. Actions
  - c. Operation
  - d. programs



- g) The spiral model of software development
  - a. Ends with the deliver' of the software product
  - b. Is more chaotic than the incremental model
  - c. Includes project risk evaluation during each iteration
  - d. risky model that rarely produces a meaningful product
- h) RAD stands for
  - a. Relative Application Development
  - b. Rapid Application Development
  - c. Rapid Application Document
  - d. None of the mentioned
- i) Which model can be selected if user is involved in all the phases of SDLC?
  - a. Waterfall Model
  - b. Prototyping Model
  - c. RAD Model
  - d. both Prototyping Model & RAD Model
- j) Test cases should uncover errors like
  - a. Nonexistent loop termination
  - b. Comparison of different data types
  - c. Incorrect logical operators or precedence
  - d. All of the mentioned
- k) The spiral model was originally proposed by
  - a. IBM
  - b. Barry Boehm
  - c. Pressman
  - d. Royce
- l) If you were to create client/server applications, which model would you go for?
  - a. WINWIN Spiral Model
  - b. Spiral Model
  - c. Concurrent Model
  - d. Incremental Model
- m) The user system requirements are the parts of which document?
  - a. SDD
  - b. SRS
  - c. DDD
  - d. SRD
- n) How many phases are there in Requirement Analysis?
  - a. Three
  - b. Four
  - c. Five
  - d. Six

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

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
1	What is Information system Explain in Brief	5
2	Discuss System Development Life Cycle (SDLC)	5
3	Write Responsibilities of system analyst	4
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
1	Discuss Characteristics of system	5
2	Discuss Decision Support System (DSS)	5



	3	Discuss Management Information System (MIS)	4
<b>Q-4</b>		<b>Attempt all questions</b>	<b>(14)</b>
	1	Write a note on SRS Documents.	5
	2	Write a note on Record Review and observation	5
	3	Write a note on Decision tree and Decision table	4
<b>Q-5</b>		<b>Attempt all questions</b>	<b>(14)</b>
	1	Write a note on Designing Data Flow Diagram	5
	2	Discuss Input Design Method	5
	3	What is Data Dictionary ?	4
<b>Q-6</b>		<b>Attempt all questions</b>	<b>(14)</b>
	1	What is file discuss Sequential Method, Direct Method	7
	2	Discuss Various types of Prototype Methods	7
<b>Q-7</b>		<b>Attempt all questions</b>	<b>(14)</b>
	1	What is Software Engineering? Incremental Model	7
	2	Write a note on RAD model.	7
<b>Q-8</b>		<b>Attempt all questions</b>	<b>(14)</b>
	1	What is testing? Discuss Dynamic testing	7
	2	Define terms: Test cases and Test harness	7

