

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

Subject Name : System Analysis and Design

Subject Code : 4CS03SAD1

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

Semester : 3

Date : 29/11/2018

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) Which of the following is not a phase of SDLC?
  - a) Requirement gathering
  - b) Maintenance
  - c) Analysis
  - d) All of the above
- b) The \_\_\_\_\_ symbol is used in a flowchart to represent a step that gets information from the user.
  - a. Process
  - b. Start/Stop
  - c. Input/Output
  - d. Selection/repetition
- c) Which of the following is not a fact-finding technique?
  - a. Third party enquiry
  - b. Interview
  - c. Questionnaire
  - d. Record reviews
- d) SDLC stands for
  - a. System Development Life Cycle
  - b. Structure Design Life Cycle
  - c. System Design Life Cycle
  - d. Structure development Life Cycle
- e) A rectangle in a DFD represents
  - a. a process
  - b. a data store
  - c. an external entity
  - d. an input unit
- f) Which are the tools not used for System Analysis
  - a. Flowcharts
  - b. Decision table



- c. System - test data
  - d. Data Flow Diagram
- g)** How many steps are in the systems development life cycle (SDLC)?
- a. 4
  - b. 5
  - c. 6
  - d. 10
- h)** RAD stands for \_\_\_\_\_.
- a. Rapid and Design
  - b. Rapid Aided Development
  - c. Rapid Application Development
  - d. Rapid Application Design
- i)** Problem analysis is done during
- a. System design phase
  - b. Systems analysis phase
  - c. Before system test
  - d. All of the above
- j)** The most important attribute of a systems analyst is
- a. excellent programming skills
  - b. very good hardware designing skills
  - c. very good technical management skills
  - d. very good writing skills
- k)** What are the types of requirements
- a) Availability
  - b) Reliability
  - c) Usability
  - d) All of the mentioned
- l)** The user system requirements are the parts of which document ?
- a) SDD
  - b) SRS
  - c) DDD
  - d) SRD
- m)** Which of the following is non-functional testing?
- a) Black box testing
  - b) Performance testing
  - c) Unit testing
  - d) None of the mentioned
- n)** The spiral model was originally proposed by
- a) IBM
  - b) Barry Boehm
  - c) Pressman
  - d) Royce

**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 System? Explain Sub-system	5
2	Discuss System Development Life Cycle (SDLC)	5
3	Discuss Types of User	4



<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
1	Discuss Transaction Processing System (TPS)	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	What is System analyst? Discuss Role and Task of System Analyst.	5
2	Write a note on Interview, Questionnaire, Record Review	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	Explain 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? Discuss Spiral Model	7
2	Write a note on prototype model	7
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
1	What is testing? Discuss static testing	7
2	Define terms: Bug ,Error, Defect, Fault, Failure	7

