C.U.SHAH UNIVERSITY
Winter Examination-2018

Subject Name : SAD - SE

Subject Code : 4CS02BSE1/4CS02ISE1   **Branch: B.C.A./ B.Sc.I.T.**

Semester : 2   Date : 31/10/2018   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.

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)   What is full form of SDLC?
        a System Design Life cycle
        b Software Design Life Cycle
        c System Development Life Cycle
        d Software Development Life Cycle
   c)   System Study involves
         a   study of an existing system
         b   documenting the existing system.
         c   Identifying current deficiencies and establishing new goals
         d   All of the above
   d)   How many steps are in the systems development life cycle (SDLC)?
        a 4
        b 5
        c 6
        d 10
   e)   Which of the following is not a fact-finding technique?
        a. Third party enquiry
        b. Interview
        c. Questionnaire
        d. Record reviews

   f)   What are the characteristics of software?

a. Software is developed or engineered; it is not manufactured in the classical sense.

b. Software doesn't " wear out ".

c. Software can be custom built or custom build.

d. All mentioned above

g) Which is not a SQA activity?

a. Black box testing

b. White box testing

c. Integration testing

d. Unit testing

h) What are the various Testing Levels?

a. Unit Testing

b. System Testing

c. Integration Testing

d. All of the mentioned

i) Which one of the following is not a step of requirement engineering?
a. elicitation
b. design
c. analysis
d. documentation

j) What are the types of requirements ?
a. Availability
b. Reliability
c. Usability
d. All of the mentioned

k) The model in which the requirements are implemented by its category is _____ .
a. Evolutionary Development Model
b. Waterfall Model
c. Prototyping
d. Iterative Enhancement Model

l) SRD stands for _____ .
a. Software Requirements Definition
b. Structured Requirements Definition
c. Software Requirements Diagram
d. Structured Requirements Diagram

m) Which chart is a tool that depicts project as network diagram that is capable of graphically representing main events of project in both parallel and consecutive way?

a. PERT chart

b. Gantt chart

c. Both a and b above

d. None of the above

n) Design phase is followed by _____ .
a. Coding
b. Testing
c. Maintenance
d. None of the above.

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

Q-2		Attempt all questions	(14)
	1	What is System and Explain Characteristic of System?	7
	2	What is System Analyst? Discuss Responsibilities of System Analyst	7
Q-3		Attempt all questions	(14)
	1	Write a note on SDLC	7
	2	Discuss MIS and DSS	7
Q-4		Attempt all questions	(14)
	1	Write a note on Questionnaire, Record Review, Observation	7
	2	Write a note on Decision Tree, Decision Table, SRS Document	7
Q-5		Attempt all questions	(14)
	1	Discuss with Suitable Example Data Flow Diagram, Data Dictionary	7
	2	Discuss Types of Various Prototype Methods	7
Q-6		Attempt all questions	(14)
	1	Write a note on Sequential Method, Direct Method	7
	2	Discuss Test Harness, Failure, Bug, Error	7
Q-7		Attempt all questions	(14)
	1	Discuss Spiral Model for software engineering.	7
	2	What is Testing ? Discuss Static Testing and Dynamic Testing	7
Q-8		Attempt all questions	(14)
	1	What is Project Management ? Discuss Quality Management.	7
	2	Write a note on 4P's Principle,	7