

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Computer Aided Design And Analysis (CAD)

Subject code : 5CS04MCD1

Branch : MCA

Semester : 4

Date : 24/04/2019

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator and 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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SECTION – I

Q-1 Attempt the Following questions

(07)

- a. What is System?
- b. List out characteristics of system
- c. Define Open and Close System
- d. List out categories of Information System
- e. Who is System Analyst?
- f. Given the Full name of SDLC
- g. What is Data flow Diagram ?

Q-2 Attempt all questions

(14)

- (1) Describe Information System with its three Categories **05**
- (2) Explain Interviewing with its types **05**
- (3) Write Down Characteristics of System **04**

OR

Q-2 Attempt all questions

(14)

- (1) Discuss Structural Modeling with its purpose **05**
- (2) Explain Data Dictionary in brief **05**
- (3) Differentiate between Event and State **04**

Q-3 Attempt all questions

(14)

- (1) Explain SDLC with Each Phases of it **07**
- (2) Draw Data Flow Diagram for Student Management System(State Your Assumptions) **07**

OR

Q-3

- (1) Describe Association, Aggregation and Generalization with suitable Example **07**
- (2) Explain Nested State Diagram with given suitable example **07**

SECTION – II

Q-4 Attempt the Following questions

(07)

- a. Define Data Dictionary
- b. Define Use Case
- c. Given Full Name of CRC



- d. What is Behavioral modeling?
- e. List out the elements of Object Model
- f. What is an Actor?
- g. List out the symbols of an Activity Diagram

Q-5 Attempt all questions (14)

- (1) Explain Responsibilities and Duties of System Analyst **05**
- (2) Describe Common Mechanism with suitable example **05**
- (3) Differentiate Between Open Ended System and Close Ended System **04**

OR

Q-5 Attempt all questions (14)

- (1) Explain Class Responsibilities – Collaboration Card With an Example **05**
- (2) Describe Sequence Diagram with an appropriate example **05**
- (3) Differentiate Between Transitions & Condition **04**

Q-6 Attempt all questions (14)

- (1) “The CSI”, a monthly magazine published from New Delhi is send to subscriber by post. The subscription is accepted for one year or two years, Three months before the expiry of subscription, remainder 1 is send. If there is no reply from subscriber, remainder 2 is send before one month of expiry of subscription. If no reply is received up to 10 days before expiry of subscription, name is removed from mailing list and subscriber is informed. Draw Limited Entry Decision Table and Decision Tree for the above case. **07**
- (2) Draw a Use case for Hospital Management System(State Your Assumptions) **07**

OR

Q-6 Attempt all Questions (14)

- (1) Draw a Class diagram showing complete interaction for Railway Reservation System (State Your Assumptions) **07**
- (2) In the University, Student Seek admission to the particular course and found it eligible the student is enrollment for request course. There are several faculty members who teach the various subjects of this course. The Subject faculty conducts the examination for concern subject and at the end of semester student performance recorded. If student enable to pass a subject, they are promoted to the next semester but has to reappear to that subject and examination again that clear them backlog. To Draw an Activity diagram showing complete interaction of it. **07**

