

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

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

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name :** Computer Aided Design And Analysis (CAD)

**Subject Code :** 5CS04MCD1

**Branch :** M.C.A.

**Semester :** 4

**Date :** 03/05/2018

**Time :** 10:30 To 01:30

**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 Dynamic Modeling?
- b. Given the Full name of TPS and DSS
- c. Define Data Dictionary
- d. List out elements of object modeling
- e. List the symbols of Use Case Diagram
- f. Write three characteristics of system
- g. What is Data flow Diagram ?

**Q-2 Attempt all questions**

**(14)**

- (1) Describe Information System with its three Categories **05**
- (2) Write a Note on Interviewing with its types **05**
- (3) What is System? Write Down Characteristics of System **04**

**OR**

**Q-2 Attempt all questions**

**(14)**

- (1) What is Structural Modeling? Define purpose of Structural Modeling **05**
- (2) How to create and Use Data Dictionary with suitable example **05**
- (3) Differentiate between Event and State **04**

**Q-3 Attempt all questions**

**(14)**

- (1) What means by SDLC? Explain Each Phase of it with personal involved in Each Stage **07**
- (2) Draw Data Flow Diagram for Fast Food Restaurant (State Your Assumptions) **07**

**OR**

- Q-3**
- (1) Describe Association, Aggregation and Generalization with suitable Example
  - (2) Explain Nested State Diagram with suitable example

### **SECTION – II**

**Q-4 Attempt the Following questions**

**(07)**

- a. What is Behavioral modeling?
- b. Define Use Case
- c. Given Full Name of CRC



- d. List out Relationship in Class Diagram
- e. What mean by Physical DFD ?
- f. Define an Actor
- g. What mean by logical DFD ?

<b>Q-5 Attempt all questions</b>	<b>(14)</b>
(1) Write a note on System Analyst	<b>05</b>
(2) Explain State Modeling with an example	<b>05</b>
(3) Differentiate Between Decision Tree and Decision Table	<b>04</b>

**OR**

<b>Q-5 Attempt all questions</b>	<b>(14)</b>
(1) Explain Class Responsibilities – Collaboration Card With an Example	<b>05</b>
(2) Differentiate Between Transitions and Condition	<b>05</b>
(3) Explain State Modeling and also State Diagram with suitable example	<b>04</b>

<b>Q-6 Attempt all questions</b>	<b>(14)</b>
(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.	<b>07</b>
(2) Draw a Use case for Hotel Management System( State Your Assumptions)	<b>07</b>

**OR**

<b>Q-6 Attempt all Questions</b>	<b>(14)</b>
(1) Draw an Object diagram showing complete interaction for Railway Reservation System( State Your Assumptions)	<b>07</b>
(2) Draw an Activity diagram showing complete interaction for Building a House (State Your Assumptions)	<b>07</b>

