Seat No.: \_\_\_\_\_

Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

MBA - SEMESTER-III • EXAMINATION - WINTER • 2014

Subject Code: 2830402 Date: 08-12-2014

**Subject Name: System Analysis and Design (SA&D)** 

Time: 10:30 am - 01:30 pm Total Marks: 70

**Instructions:** 

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- **Q.1** Describe System Analysis and the major activities that occur during this phase of the 07 System Development Life Cycle.
  - Explain when to use different types of file organizations to store computer files. **(b)** 07
- Draw context diagram and leve-0 Data Flow Diagram for the Order Processing **Q.2** 07 (a) System.
  - **(b)** Explain in detail the following terms: 07
    - 1. Decomposition
    - 2. Coupling
    - 3. Cohesion
  - (b) Describe different types of data errors? Explain the various techniques used by the 07 Systems Designers to detect data errors before saving or transmission.
- Explain what is meant by Critical Path Scheduling? Describe the process of creating Q.3 07 Gantt charts and network diagram with an example.
  - Contrast the following set of terms: **(b)** 
    - 07
    - **Encapsulation & Polymorphism**
    - ii. Static binding & Dynamic binding
- Q.3Describe the structured walkthrough process. What roles need to be performed 07 during a walkthrough?
  - Describe five approaches to system testing **(b)**
  - **07**
- Draw E-R Diagram about Team, Players and their Fans including the following **Q.4** (a) 07 information:
  - 1. For each team: its name, its players, its team captain (one of its players) and the colour of its uniform.
  - 2. For each players: his / her name
  - 3. For each fan: his / her name, favorite teams, favorite players, and favorite
  - What is Data-flow diagram? How data-flow diagrams can be used as an analysis 07 **(b)** tools.
- Distinguish between unary, binary, and ternary relationships and give an example of **07**
- Explain the use of models, prototypes, and CASE tools in the systems development 07 0.4 process. Also explain the pros and cons of agile development methods.

## http://www.gujaratstudy.com

Q.5	(a)	Describe the process of coding, testing, and converting an organizational information	07
	<b>(b)</b>	system and outline the deliverables and outcomes of the process.  Describe six different sources of software	07

Q.5 (a) What are different types of relationship employed in a use-case diagram and what is 07 their purpose.

(b) Explain the process of designing forms and reports, and the deliverables for their 07 creation.

\*\*\*\*\*