

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MBA - SEMESTER-III • EXAMINATION – SUMMER • 2015**

**Subject Code: 2830402****Date: 29-05-2015****Subject Name: System Analysis and Design (SA&D)****Time: 14:30 pm – 17:30 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** (a) Why do we test systems? Discuss the various types of testing in detail. **07**
- (b) Explain the role of system analyst. The system analyst is known as “An agent of change”. Why? **07**
- Q.2** (a) Distinguish between: **07**
- (i) Module Cohesion & Module Coupling.
- (ii) Decision Tree & Decision Table.
- (b) What do you mean by SDLC? Describe the different phases of SDLC? **07**
- OR**
- (b) Define the terms economic feasibility, technical feasibility, and operational feasibility. **07**
- Q.3** (a) What fact-finding techniques are used for investigating the information requirement of a large organization? **07**
- (b) What do you mean by feasibility study and what are its considerations? **07**
- OR**
- Q.3** (a) Explain the difference between a Structured Interview and an Unstructured Interview. When is each type of interview appropriately used? **07**
- (b) What is Implementation? How does it differ from Conversion? Elaborate. **07**
- Q.4** (a) Write short notes on the following: **07**
- (i) Class diagrams.
- (ii) ER diagrams.
- (b) Define the term Quality Assurance. Discuss its importance in System Design. **07**
- OR**
- Q.4** (a) Distinguish between: **07**
- (i) Physical & Abstract Systems
- (ii) Open & Closed systems
- Q.4** (b) Draw a context and Level-1 data flow diagram for the Fast Food Information System. **07**
- Q.5** (a) “A data dictionary is a structured repository of data about data”. Discuss. **07**
- (b) Discuss role of Input and Output Design in System Design **07**
- OR**
- Q.5** (a) Explain the difference between a functional and non-functional requirement. Identify three types of non-functional requirement. **07**
- (b) What is Data-flow diagram? Explain the use of data-flow diagrams as an analysis tools. **07**