

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**
