

GUJARAT TECHNOLOGICAL UNIVERSITY**M.B.A. Sem. – III - Examination –June- 2011****Subject code: 830402****Subject Name: System Analysis & Design****Date:11/06/2011****Time: 02.30 pm – 05.30 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) What is prototyping? How can prototyping and CASE tools augment SDLC? **07**
 (b) Why do companies resort to outsourcing? How can you decide among various off-the-shelf software options? What criteria should you use? **07**
- Q.2** (a) Describe value chain analysis and how organizations use this technique to evaluate and compare projects. **07**
 (b) Define Corporate Strategic Planning. Describe the steps involved in it. Explain three commonly used methods for performing economic cost-benefit analysis. **07**
- OR**
- (b) Apart from Economic and Technical feasibility, which are the other feasibility concerns? **07**
- Q.3** (a) What is Structured English? How do you know when to use Structured English or decision tables? Which is best for what situation? **07**
 (b) Explain the unique guidelines for drawing Data Flow Diagrams. **07**
- OR**
- Q.3** (a) What is the degree of a relationship? Give an example of each of the relationship degrees. **07**
 (b) Describe four traditional techniques for collecting information during analysis. **07**
- Q.4** (a) What are the purposes of Database Design? Define Normalization and its rules. **07**
 (b) What are the general design guidelines for usability of forms and reports? Describe the characteristics for consideration when designing forms and reports. **07**
- OR**
- Q.4** (a) Describe various methods of interacting with a system and list down various hardware devices for interacting with an information system. **07**
 (b) Summarize the six possible architectures for client / server systems and also describe the advantages of client / server architecture. **07**
- Q.5** (a) What is acceptance testing? Why should this testing be done? How important is this testing? **07**
 (b) Explain the different types of system maintenance. Also describe the factors that influence the cost of maintenance. **07**
- OR**
- Q.5** (a) What are the different approaches to installation? Explain the most expensive method and also discuss most risky method for the same. Discuss how does an organization decide which approach to be used. **07**
 (b) Define terms: (1) Encapsulation (2) Information hiding (3) Polymorphism (4) Object (5) Class (6) Static Binding (7) Dynamic Binding. **07**
