GUJARAT TECHNOLOGICAL UNIVERSITY

MBA. Sem-III Regular Examination January 2011

Subject code: 830402   **Subject Name: System Analysis and Design**
Date: 07 /01 /2011   Time: 10.30 am – 01.00 pm
Instructions: Total Marks: 70

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 **(a)** Explain the different phases in the SDLC and discuss what are the problems associated with traditional waterfall approach of SDLC. **07**

(b) Describe and compare various sources of software. Discuss four approaches to reuse in detail. According to you, which reuse approach is the best and why? **07**

Q.2 **(a)** Describe the activities performed by the project manager during project initiation and project planning. **07**

(b) What are the three generic competitive strategies? Describe what is meant by information systems planning and discuss steps involved in the process. **07**

OR

(b) What is contained in a Baseline Project Plan? Describe three commonly used methods for performing economic cost-benefit analysis. **07**

Q.3 **(a)** What do you mean by requirement determination? And discuss contemporary, traditional and radical method for determining system requirements. **07**

(b) Explain data flow diagram. List out what are the unique rules those can be apply for drawing Data Flow Diagram? **07**

OR

Q.3 **(a)** What do you mean by decision table & explain the steps in creating a decision table? Compare & contrast, structured English & decision table techniques of logic modeling. **07**

(b) What is object oriented analysis and design? Explain different methodology to improve system development and discuss which one is the better methodology for system development. **07**

Q.4 **(a)** Describe five methods of interacting with a system and list down various hardware devices for interacting with an information system. Interpret; "One device is always better than all other"? Why or why not? **07**

(b) Which are the different factors that you will consider while designing internet systems? Summarize the difference between OLAP and OLTP. **07**

OR

Q.4 **(a)** Describe the advantages of client/server architecture and summarize the six possible architectures for client/server systems. **07**

(b) What is E–Commerce? List and describe the common interface and dialogue design errors those can be found on web sites. Relate those errors with real time examples. **07**

Q.5 **(a)** Explain the different types of system maintenance and also describe the factors that influence the cost of maintenance. **07**

(b) 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**

OR

Q.5 **(a)** Explain configuration management in detail. Also discuss what is the difference between reverse engineering and reengineering CASE tools? **07**

(b) Discuss software testing in detail. What is acceptance testing and give your thoughts regarding why should this testing be done? **07**

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