

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M.B.A.- SEMESTER – III • EXAMINATION – WINTER 2012**

**Subject code: 2830402****Date: 27-12-2012****Subject Name: System Analysis and Design****Time: 10:30 pm – 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 (a) “ Every Year the transistors of a chip will be double and its cost will be half” explain this statement with reference to project cost estimation. **07**  
 (b) Explain classical systems development life cycle model **07**
- Q.2 (a) Explain Object Oriented System Development Life Cycle **07**  
 (b) Design a DFD for a library management system. Make necessary assumptions **07**
- OR
- (b) Explain different types of files with suitable example in brief. **07**
- Q.3 (a) Discuss nature and characteristics of software **07**  
 (b) Explain the waterfall model with suitable example. **07**
- OR
- Q.3 (a) What is a system? Explain categories of information system **07**  
 (b) How to analyze a system? Explain principles of system analysis in brief. **07**
- Q.4 Write short note on (Any two) **14**  
 [a] Data Structure  
 [b] Database Design  
 [c] User Interface Design  
 [d] Metrics Databases
- OR
- Q.4 (a) Describe the importance and characteristics of a good documentation in systems development process **07**  
 Q.4 (b) “System development is a task which never ends” Explain with reference to system requirement modeling concept. **07**
- Q.5 (a) Write a note on OOPs Basics **07**  
 (b) Design a DFD for a railway reservation system. Make necessary assumptions **07**
- OR
- Q.5 (a) Explain Decision Tree / Decision Table **07**  
 (b) Discuss role of Input and Output Design in System Design **07**

\*\*\*\*\*