

GUJARAT TECHNOLOGICAL UNIVERSITY**BE SEM-III Examination May 2012****Subject code: 131601****Subject Name: Business Information System****Date: 08/05/2012****Time: 02.30 pm – 05.00 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) Explain the following
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| (i) Deterministic and Probabilistic System | 03 |
| (ii) Open and Closed system | 02 |
| (iii) Replication | 02 |
- (b) Explain Data Modeling process in detail 07
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- Q.2** (a) Compare and Contrast sequential, direct access and indexed sequential file structure along with it's pros and cons 07
- (b) Explain the following
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|-------------------------|----|
| (i) Concurrency control | 03 |
| (ii) ACID Rules | 02 |
| (iii) Types of locks | 02 |
- OR**
- (b) Write a note on Requirement Analysis process. 07
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- Q.3** (a) Write a note on Business Information it's level, category & quality. 07
- (b) What are the rules of project risk management 07
- OR**
- Q.3** (a) What is decision making system? Explain steps for decision making ? 07
- (b) Write a note on different types of evaluation . 07
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- Q.4** (a) Explain the structure of Payroll system in detail. Also explain the process flow in details. 07
- (b) What is DFD ? Explain it with example. 07
- OR**
- Q.4** (a) Write a note on conditions and causes of project failure 07
- (b) Write a note on software testing life cycle. 07
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- Q.5** (a) Write a note on inventory management case study with suitable diagrams. 07
- (b) Compare and contrast 07
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| (i) Serial & Parallel Transmission | |
| (ii) Synchronous & Asynchronous Transmission | |
- OR**
- Q.5** (a) Write a note on Fuzzy logic and it's use in DSS 07
- (b) Explain fact finding methods. 07
