

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III • EXAMINATION – WINTER • 2014****Subject Code: 131601****Date: 18-12-2014****Subject Name: Business Information System****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**
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|-----|--|-----------|
| (a) | Give the difference between closed system and open system. | 03 |
| (b) | Explain the levels of information. | 03 |
| (c) | Explain the categories of information. | 03 |
| (d) | Explain the need of user knowledge and training. | 05 |

- Q.2**
- | | | |
|-----|-----------------------------------|-----------|
| (a) | Explain following terms: | 07 |
| | i) Minicomputer | |
| | ii) Microcomputer | |
| | iii) Distributed processing | |
| | iv) Multitasking | |
| | v) Backing storage | |
| | vi) Electronic mail | |
| | vii) Operating system | |
| (b) | Write a short note on followings: | 07 |
| | i) Visual display unit (VDU) | |
| | ii) Types of printers | |

OR

- | | | |
|-----|---|-----------|
| (b) | Explain Optical Character Recognition in details. | 07 |
|-----|---|-----------|
- Q.3**
- | | | |
|-----|---|-----------|
| (a) | Write a short note on: | 08 |
| | i) Magnetic disk | |
| | ii) Optical disk | |
| | iii) WORM | |
| | iv) Erasable optical (EO) | |
| (b) | Explain sequential file structure, direct access file structure and index file structure in detail. | 06 |

OR

- Q.3**
- | | | |
|-----|---|-----------|
| (a) | Write a Short note on: | 08 |
| | i) Flash memory | |
| | ii) Deterministic and Probabilistic Systems | |
| (b) | Describe in detail: Methods for fact finding. | 06 |

- Q.4**
- | | | |
|-----|--|-----------|
| (a) | Explain followings: | 07 |
| | i) Logic file system | |
| | ii) Input output subsystem | |
| (b) | What is computer job scheduling? What is the importance of job scheduling in computer? Draw the architecture of job scheduler. | 07 |

OR

- Q.4** **(a)** Explain followings: **07**
 i) Software testing with its characteristics
 ii) Software testing life cycle
- (b)** Write a short note on Inventory System Design. **07**
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- Q.5** **(a)** Explain the followings: **07**
 i) Conditions of project failure
 ii) Causes of project failure
- (b)** What is computer network? Explain the types of computer networks in details. **07**
- OR**
- Q.5** **(a)** What is expert system? Draw and explain the architecture of expert system. **07**
- (b)** Explain followings in details with their applications: **07**
 i) Neural network
 ii) Fuzzy logic
