

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – III • EXAMINATION – WINTER • 2014****Subject code: 730406****Date: 27-11-2014****Subject Name: Peripheral System Design and Interfacing****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.

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|------------|------------|--|-----------|
| Q.1 | (a) | Explain EISA Bus. | 07 |
| | (b) | Discuss RS-232 C. | 07 |
| Q.2 | (a) | Explain Handshaking with suitable example. | 07 |
| | (b) | Describe PID Controllers. | 07 |
| | | OR | |
| | (b) | Discuss PC based data acquisition system. | 07 |
| Q.3 | (a) | Explain PCI Bus with applications. | 07 |
| | (b) | Describe Current Loop Interface. | 07 |
| | | OR | |
| Q.3 | (a) | Explain ISA Bus with applications. | 07 |
| | (b) | Describe GPIB signals. | 07 |
| Q.4 | (a) | Discuss CRT controller. | 07 |
| | (b) | Explain DMA controller. | 07 |
| | | OR | |
| Q.4 | (a) | Describe Keyboard/Display interfaces. | 07 |
| | (b) | Explain Programmable Logic Controller. | 07 |
| Q.5 | (a) | Discuss Cross Compiler. | 07 |
| | (b) | Explain Simulator. | 07 |
| | | OR | |
| Q.5 | (a) | Explain Automated Test Equipments. | 07 |
| | (b) | Describe Microprocessor Development Systems. | 07 |
