Roll No. .....

23532

M. Tech. 3rd Sem.
(VLSI Design & Embedded system)
Examination – December, 2013
Embedded control system

Paper : MT- VLES - 603

Time : Three hours] *[Maximum Marks : 100*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions.

1. What is an interrupt ? Explain Interrupt latency, response and recovery. Also comment on the ISR processing time. 20

2. What is a keyboard switch ? Explain with neat diagram. Also explain the keyboard matrix in detail. 20

3. (a) Explain schematic representation of ports. 10

(b) Explain ADC 0809 in detail. 10

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4. Explain in detail the multichannel analog to digital data acquisition system. 20

5. What is asynchronous serial communication ? Explain RS- 232 and RS-485 in detail. 20

6. (a) Explain controlling of Telephonic systems using Embedded C programming. 10

(b) Explain stepper motor control using embedded C programming. 10

7. What do you mean by bit masking ? Explain bit masking with an example. Also explain the programmable Peripheral Interface in detail. 20

8. Write a short note on : 20

(a) Buffred Serial I/o.

(b) Timer Manager.

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