MCA sem IV (CBCS)
Embedded Systems

11/12/2014

(3 Hours)   muadda.com   [Total Marks : 80

N.B. : (1)   Question no: 1 is **compulsory**
       (2)   Attempt any **Four** from remaining.

1. (a) Explain Architectural diagram of 8051 in detail   10
   (b) Explain any three scheduling algorithms used in RTOS   10

2. (a) Explain in detail RS 232 communication with connector configuration.   8
   (b) What are the emulators and explain emulation techniques.   7

3. (a) Explain interrupt service routine in detail.   8
   (b) Explain Instruction level parallelism?   7

4. (a) E plain handheld operating system iOS or Windows OS in detail.   8
   (b) Explain different types of memories in detail.   7

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5. (a) Explain difference between CISC and RISC.   8
   (b) Describe architectural details of Embedded Linux?   7

6. (a) What is the Semaphores and explain semaphore management function calls. 8
   (b) Write a program or pseudo-code for LED blinking?   7

7. Write short notes on any **Three** :–   15
       (a) Cross compiler
       (b) Mutex
       (c) Watch Dog Timer
       (d) JTAG
       (e) USB

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