

Code.No: RR411202

RR

SET-3

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
EMBEDDED SYSTEMS
(COM. IT, CSS)

Time: 3hours**Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks

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1. Explain the functions of a scheduler in a RTOS and how does the scheduler carryout those functions. [16]
2. What is an 'heart beat timer'? Explain why is it required in RTOS. [16]
3. Explain the need for encapsulating semaphores and queues with an example. [16]
4. Explain the requirement specifications of any four Networked Java-Enabled information appliances. [16]
5. Discuss various steps involved in the development of an embedded system with an example [16]
6. Explain about various hardware units used to build embedded systems. [16]
7. Explain the architecture and features of 8051 microcontroller. [16]
8. Explain the following:
 - a) Polling
 - b) Context switching
 - c) Interrupt priority
 - d) Interrupt vector table[4+4+4+4]
