

6E3205

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B.Tech VI Sem. (Main/Back) Exam. April-May, 2012 Computer Engg. 6CS5 Embedded System Design

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 24

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All Question carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/ calculated must be stated clerly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. Nil

_____2. ____Nil___

Unit-I

1. (a) What is the difference between Microprocessor, Microcontroller and DSP? Explain. Write down the general capabilities of Microcontroller.

(b) Explain the use of Microcontroller in Embedded systems.

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Explain How analysis and optimization of CPU Power Consumption

1. (a) What are the selection criterias of a Microcontroller? Explain. 8

(b) Explain the architecture of 32 bit Microcontroller.

Unit-II

(a) Explain the I/O Ports, Counters and Timers of a Microcontroller MSP 430.
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