Total No. of Questions :8] [Total No. of Printed Pages :2

Roll No ....

MEVD-105
M.E/M.Tech., I Semester
Examination, December 2016
Embedded Micro Controller Programming
Time : Three Hours

Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) Differentiate between application specific and super scalar processors.
   b) What is DSP processor? Explain about how they are different from Microprocessors.

2. a) What do you understand about very long instruction word, explain by giving an example?
   b) Differentiate between Harvard and Princeton architectures.

3. a) Differentiate between HVRAM and DDRRAM.
   b) Explain about parallel communication protocols and wireless protocols.

4. a) What is glue logic? Explain about how you do interfacing using glue logic.
   b) Write down keep features of 8051 microcontrollers. Also draw a basic diagram of microcontroller.

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5. a) What are timers/ counters? Write down their applications.
   b) What are different interrupt used in 8051.

6. a) What are I2C and CAN bus architecture?
   b) Write down the advantages and disadvantages of C programming for embedded system.

7. a) Differentiate between RISC and CISC.
   b) What is ARM, outline its architecture.

8. a) Compare ARM7, ARM9, and ARM11.
   b) What is ARM programming model? Write down ARM instruction set.

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