Code: 17D06104

M.Tech I Semester Regular & Supplementary Examinations January/February 2019
ADVANCED MICROPROCESSORS & MICROCONTROLLERS
(Common to ECE & DSCE)
(For students admitted in 2017 & 2018 only)

Time: 3 hours   Max. Marks: 60

Answer all the questions
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1   Write is an addressing mode? Explain the different types of addressing modes with examples.

OR

2   Explain about reduced instruction set & compare CISC and RISC.

3   Explain in detail about pipeline operation and floating point unit operation.

OR

4   Write short notes on the following:
   (a) Paging.
   (b) Multitasking.
   (c) Branch prediction.

5   Explain the programming concepts of the ARM processor.

OR

6   Discuss with examples about addressing modes of ARM processor.

7   Explain the operation modes and interrupt systems.

OR

8   (a) How to interface the A/D converter with a microcontroller?
    (b) Discuss the instruction set of 68HC11 microcontroller.

9   Explain about the CPU architecture of PIC microcontroller.

OR

10   Explain the interfacing of I2C bus organization and UART.

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