Code: 17D06201

www.FirstRanker.com

www.FirstRanker.com

M.Tech II Semester Supplementary Examinations January/February 2019

EMBEDDED SYSTEM DESIGN

(Common to DECS, ECE, DSCE, VLSI, VLSIS & VLSISD)
(For students admitted in 2017 only)

Time: 3 hours Max. Marks: 60

Answer all the questions

1 What is embedded system? Explain embedded system design and development life cycle.

OR

- 2 Explain ISA architecture models, processor design and memories of embedded processors.
- 3 With neat sketches, explain the architecture of MSP430 processor.

OF

- 4 Explain the addressing modes and instruction set of MSP430 processor.
- 5 Explain the interfacing mechanism of MSP430 processor with digital inputs and outputs.

OR

- 6 What is watchdog timer? Explain Timer-A and Timer-B modes of operation.
- 7 Explain the interfacing mechanism of SPI with USCI.

OF

- 8 Explain inter integrated circuit bus and its operation.
- 9 What is UART? Why we use UART? And explain UART architecture.

OR

10 Explain analog to digital interfacing mechanism in MSP430.

,....

