

44788

Name :

Reg. No:



EIGHTH SEMESTER B.TECH DEGREE (SUPPLEMENTARY) EXAMINATION, 2013

AI 04 804 (A)/EC04 804 (A) DSP CONTROLLERS

Time : Three Hours

Maximum : 100 Marks

PART A

- I. a. Explain the serial parts in the TMS 320C6x Processor.
- b. Explain pipelining used in TMS 320C6x Processor.
- c. Explain the forced point format followed in TMS 320C64 Processor with appropriate example.
- d. Explain the floating point format followed in TMS 320C64 Processor with suitable examples.
- e. Explain FIR, IIR filters with examples.
- f. Write notes on software pipelining.
- g. Explain briefly on compilers
- h. Write notes on multi rate filters. (8 x 5 = 40 marks)

PART B

- II. a. Explain the addressing modes of TMS 320C6x Processor.
OR
b. Explain the DMA operation using TMS 320C6x Processor.

- III. a. Explain the CPU of TMS 320C64 Processor.
OR
b. Write an assembly language program for TMS 320C64 to find the standard deviation of n given numbers.

- IV. a. Explain the code optimization procedures with examples
OR
b. Write notes on
 - (i) adaptive filters
 - (ii) noise cancellation method.

- V. a. Explain DSP application in
 - (i) PLL
 - (ii) FSK modems**OR**
b. Explain DSP application in
 - (i) Voice scrambling
 - (ii) Image processing.(4 x 15 = 60 marks)
