Reg. No. :				

# Question Paper Code: 21453

#### B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

#### Fifth Semester

#### Electronics and Communication Engineering

#### EC 2302/EC 52 - DIGITAL SIGNAL PROCESSING

#### (Regulations 2008)

#### (Common to PTEC 2302 - Digital Signal Processing for B.E. (Part-Time) Fourth Semester - ECE — Regulations 2009)

#### Time: Three hours

#### Answer ALL questions.

#### PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. State the difference between DFT and DTFT.
- 2. What is bit reversal?
- 3. Distinguish between Butterworth and Chebyshev filter.
- 4. What is prewarping?
- 5. State the properties of FIR filter.
- Give the desirable characteristics of the window.
- 7. What is meant by fixed point arithmetic? Give example.
- 8. Explain the meaning of limit cycle oscillator.
- 9. What is anti-imaging filter?
- Give the applications of multi-rate DSP.

#### PART B - (5 × 16 = 80 marks)

- 11. (a) (i) State the following properties of DFT.
  - (1) Time reversal
  - (2) Parsavel's theorem.

(8)

Maximum: 100 marks

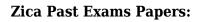
(ii) Perform the linear convolution of the given sequences  $x(n) = \{1,-1,1,-1\}, h(n) = \{1,2,3,4\}$  using DFT method. (8)

#### Or

(b) Derive the butterfly diagram of 8 point radix-2 DIF-FFT algorithm and fully label it.

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