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

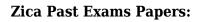
(ii) Perform the linear convolution of the given sequences  $x(n) = \{1,-1,1,-1\}, h(n) = \{1,2,3,4\}$  using DFT method. (8)

#### Or

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

# **Zica Past Exams Papers**

**Brendan G. Carr** 



#### **Zica Past Exams Papers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Zica Past Exams Papers**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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