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

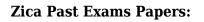
(ii) Perform the linear convolution of the given sequences  $x(n) = \{1,-1,1,-1\}, h(n) = \{1,2,3,4\}$  using DFT method. (8)

#### Or

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

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Katrin Zwirglmaier



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#### **Table of Contents Zica Past Exams Papers**

- 1. Understanding the eBook Zica Past Exams Papers
  - The Rise of Digital Reading Zica Past Exams Papers
  - o Advantages of eBooks Over Traditional Books
- 2. Identifying Zica Past Exams Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Zica Past Exams Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Zica Past Exams Papers
  - Personalized Recommendations
  - Zica Past Exams Papers User Reviews and Ratings

- Zica Past Exams Papers and Bestseller Lists
- 5. Accessing Zica Past Exams Papers Free and Paid eBooks
  - o Zica Past Exams Papers Public Domain eBooks
  - Zica Past Exams Papers eBook Subscription Services
  - Zica Past Exams Papers Budget-Friendly Options
- 6. Navigating Zica Past Exams Papers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Zica Past Exams Papers Compatibility with Devices
  - Zica Past Exams Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Zica Past Exams Papers
  - Highlighting and Note-Taking Zica Past Exams Papers
  - Interactive Elements Zica Past Exams Papers
- 8. Staying Engaged with Zica Past Exams Papers
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Zica Past Exams Papers
- 9. Balancing eBooks and Physical Books Zica Past Exams Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Zica Past Exams Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Zica Past Exams Papers
  - Setting Reading Goals Zica Past Exams Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Zica Past Exams Papers
  - Fact-Checking eBook Content of Zica Past Exams Papers
  - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
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