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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

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 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.
6. 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?
10. 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) Parseval's theorem. (8)
- (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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Table of Contents Zica Past Exams Papers

1. Understanding the eBook Zica Past Exams Papers
 - The Rise of Digital Reading Zica Past Exams Papers
 - 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
 - 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
 - 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
 - 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
 - Interactive and Gamified eBooks

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