

(3 hours)

Total Marks: 80

- N.B.
1. Question No. 1 is compulsory
 2. Attempt any three out of remaining
 3. Assume suitable data if necessary and justify the assumptions
 4. Figures to the right indicate full marks

- Q1
- A Evaluate DFT of $x(n) = \cos(0.25\pi n)$. 05
 - B Determine the energy and power of signal given by $x(n) = (1/3)^n u(n)$. 05
 - C Find the circular Convolution of the following causal signals
 $x_1(n) = \{3, 2, 4, 1\}$ and $x_2(n) = \{2, 1, 3\}$ 05
 - D Define BIBO Stable system. 05
- Q2
- A State the following DFT properties: 10
 1. Linearity
 2. Periodicity
 3. Scaling
 4. Convolution
 5. Time Reversal
 - B Consider the following analog signal
 $x(t) = 5 \cos 2\pi(1000t) + 10 \cos 2\pi(5000t)$ to be sampled.
 I) Evaluate the Nyquist rate for this signal.
 II) If the signal is sampled at 4 kHz, will the signal be recovered from its samples? 10
- Q3
- A For the causal LTI digital filter with impulse response given by
 $h(n) = \delta(n) - 2\delta(n-1) + \delta(n-2) + 2\delta(n-3)$ sketch the magnitude response of the filter. 10
 - B Design radix 2FFT flow graph for $x(n) = \{2, 1, 3, 1\}$ 10
- Q4
- A Check whether the system $y[n] = x[n] + 2x[n-2]$ is: 10
 - i) Static or Dynamic
 - ii) Linear or Non-linear
 - iii) Causal or Non-Causal
 - iv) Shift variant or Shift Invariant
 - B Compute linear convolution of the causal sequences $x[n] = \{3, 4, 2, 1, 2, 2, 1, 1\}$ and $h[n] = \{1, -1\}$ using overlap add method. 10

[TURN OVER]

Mg University Digital Signal Processing Question Paper

S Ben Porath



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Table of Contents Mg University Digital Signal Processing Question Paper

1. Understanding the eBook Mg University Digital Signal Processing Question Paper
 - The Rise of Digital Reading Mg University Digital Signal Processing Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Mg University Digital Signal Processing Question Paper
 - 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 Mg University Digital Signal Processing Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mg University Digital Signal Processing Question Paper

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

- Fact-Checking eBook Content of Mg University Digital Signal Processing Question Paper
- 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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