

PART B — (5 × 16 = 80 marks)

11. (a) (i) A LTI system with impulse response $h(n) = u(n) - u(n-6)$ is excited by an input $x(n) = [u(n-1) - u(n-5)]$. Determine the output of the system. (8)
- (ii) Examine whether the following system are linear, time-invariant, causal and stable or not
- (1) $y(n) = x(n/2 + 2)$
- (2) $y(n) = x(n) \cos \omega_0 n$. (8)

Or

- (b) (i) Determine the convolution and correlation of the sequence $x(n) = \{1, -1, 2, -3, 3\}$ and $h(n) = \{0.5, 1, 1, 2, 2\}$. (8)
- (ii) For the analog signal $x(t) = 3 \cos 2000\pi t + 5 \sin 6000\pi t + 10 \cos 12000\pi t$, find the following (1) Nyquist sampling rate (2) discrete time signal if the analog signal $x(t)$ sampled using $F_s = 5000$ samples/sec. (8)

12. (a) (i) Determine the final value of the following Z -transform.
- (1) $\frac{(2z+1)(z-2)}{z(z-1)}$
- (2) $\frac{z+1}{2(z^2+1)(z-0.9)}$. (8)
- (ii) Find the inverse Z -transform of $X(z) = \frac{z}{3z^2 - 4z + 1}$ for the ROC
- (1) $|z| < 1/3$
- (2) $1/3 < |z| < 1$. (8)

Or

- (b) (i) Determine the magnitude of phase response of the system whose difference equation $y(n) - \frac{1}{4}y(n-1) = x(n) - x(n-1) + 2x(n-2)$. (8)
- (ii) Determine the stability of the system
- $$y(n) - 1/4 y(n-1) + 1/4 y(n-2) - 1/16 y(n-3) = 2x(n) + 3x(n-1). \quad (8)$$

Digital Signal Processing Anna University Question Paper

Brendan G. Carr



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Table of Contents Digital Signal Processing Anna University Question Paper

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

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