



Fifth Semester B.E. Degree Examination, Jan./Feb. 2021 Signals and Systems

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1. a. Determine whether the following signals are energy or power signals or neither. Justify your answer.

i) $x(t) = e^{j(t+j/2)}$

ii) $x(t) = 8 \cos(4t) \cdot \cos(6t)$

(10 Marks)
- b. Sketch the following signals :

i) $x_1(t) = -u(t+3) + 2u(t+1) - 2u(t-1) + u(t-3)$

ii) $x_2(t) = r(t) - r(t-1) - r(t-3) + r(t-4)$

(10 Marks)

OR

2. a. Determine whether the system $y(t) = e^{40t}$ is

i) Causal

ii) Time Invariant

iii) Linear

iv) Stability

v) Memoryless

 Justify your answer. (10 Marks)
- b. For the signal shown in Fig. Q2(b), sketch and label each of the following signals :

i) $y_1(t) = x(t-2)$

ii) $y_2(t) = x(2t-2)$

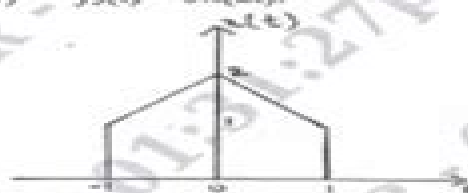
iii) $y_3(t) = x(\frac{1}{2}t+2)$

iv) $y_4(t) = x(-2t-1)$

v) $y_5(t) = 3x(2t)$

(10 Marks)

Fig. Q2(b)



Module-2

3. a. Evaluate the convolution integral for a system with input $x(t)$ and impulse response $h(t)$.
 Given $x(t) = u(t-1) - u(t-3)$; $h(t) = u(t) - u(t-2)$. Also sketch $y(t)$. (10 Marks)
- b. Represent the direct form I and form II realization for the system described by

i) $y[n] + \frac{1}{4}y[n-1] + \frac{1}{8}y[n-2] = x[n] + x[n-1]$

ii) $\frac{d^2}{dt^2}y(t) + 5\frac{d}{dt}y(t) + 4y(t) = x(t) + 3\frac{d}{dt}x(t)$

(10 Marks)

OR

4. a. Determine the complete response of the system describe by the differential equation.
 $\frac{d^2}{dt^2}y(t) + 5\frac{d}{dt}y(t) + 4y(t) = \frac{d}{dt}x(t)$ with $y(0) = 0$; $\frac{d}{dt}y(t) \big|_{t=0} = 1$;
 For input $x(t) = e^{-2t}u(t)$. (10 Marks)
- b. Investigate the causality, stability and memory of the LTI system described by the impulse response

i) $h(t) = e^{-20t}$

ii) $h[n] = 2^n u[n-1]$

(10 Marks)

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Table of Contents Signals And System Vtu Question Papers

1. Understanding the eBook Signals And System Vtu Question Papers
 - The Rise of Digital Reading Signals And System Vtu Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Signals And System Vtu Question 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 Signals And System Vtu Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Signals And System Vtu Question Papers
 - Personalized Recommendations
 - Signals And System Vtu Question Papers User Reviews and Ratings
 - Signals And System Vtu Question Papers and Bestseller Lists
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 - Signals And System Vtu Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Signals And System Vtu Question Papers
 - Highlighting and Note-Taking Signals And System Vtu Question Papers
 - Interactive Elements Signals And System Vtu Question Papers
- 8. Staying Engaged with Signals And System Vtu Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Signals And System Vtu Question Papers
- 9. Balancing eBooks and Physical Books Signals And System Vtu Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Signals And System Vtu Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Signals And System Vtu Question Papers
 - Setting Reading Goals Signals And System Vtu Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Signals And System Vtu Question Papers
 - Fact-Checking eBook Content of Signals And System Vtu Question 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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