

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2022

Subject Code: 2171003

Date: 14/06/2022

Subject Name: Digital Signal Processing

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Determine the Nyquist sampling frequency and Nyquist interval for the signal, $x(t) = \left[\frac{\sin 200\pi t}{\pi t} \right]^2$.	03
	(b) Compare the direct form and linear phase structures of an N^{th} order FIR system.	04
	(c) What is Digital Signal Processing? List the unique architectural features of DSP processors.	07
Q.2	(a) In an LTI system the impulse response $h(n) = C^n$ for $n \leq 0$. Determine the range of values of C , for which the system is stable.	03
	(b) List the properties of Butterworth lowpass filters.	04
	(c) Using z -transform, perform deconvolution of response $y(n) = \{-2, 5, -5, 2, 1\}$ and impulse response $h(n) = \{1, -1, 1\}$, to extract the input $x(n)$.	07
	OR	
	(c) Explain the decimation and interpolation process with an example.	07
Q.3	(a) Find the z -transform of $e^{-\alpha n} u(n)$.	03
	(b) Determine the regions of convergence of right-sided, left-sided, infinite-duration two-sided and finite-duration two-sided sequences.	04
	(c) Determine the impulse response $h(n)$ for the system described by the second order difference equation, $y(n) - 4y(n-1) + 4y(n-2) = x(n-1)$.	07
	OR	
Q.3	(a) List the application of an adaptive filter. Briefly explain any one of it.	03
	(b) What do you mean by frequency wrapping?	04
	(c) Discuss design steps of IIR filter using bilinear transformation.	07
Q.4	(a) What are the factors that influence the choice of structure for realization of an LTI system?	03
	(b) Find the Fourier transform of, $x(n) = -a^n u(-n-1)$, where $ a < 1$.	04
	(c) Discuss in brief: Radix-2 Decimation-in-Time FFT algorithms.	07
	OR	
Q.4	(a) What is Gibbs phenomenon?	03

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 - The Rise of Digital Reading 3340901 Gtu Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying 3340901 Gtu 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 3340901 Gtu Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 3340901 Gtu Papers
 - Personalized Recommendations
 - 3340901 Gtu Papers User Reviews and Ratings
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 - 3340901 Gtu Papers Enhanced eBook Features
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 - Highlighting and Note-Taking 3340901 Gtu Papers
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 3340901 Gtu Papers
9. Balancing eBooks and Physical Books 3340901 Gtu Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 3340901 Gtu Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 3340901 Gtu Papers
 - Setting Reading Goals 3340901 Gtu Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 3340901 Gtu Papers
 - Fact-Checking eBook Content of 3340901 Gtu 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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