

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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