

**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.

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

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