M.Tech. Degree Examination, June 2012
Modern DSP

Time: 3 hrs.   Max. Marks:100

Note: *1. Answer any FIVE full questions.*
2. Missing data, if any, may be suitably assumed.

1 a. With the help of block diagrams, explain the prediction based sampling methods. **(08 Marks)**
   b. A continuous time signal $x(t)$ has a bandwidth $F_B = 10$ kHz and it is sampled at $F_S = 22$ kHz, using 8 bits/sample. The signal is properly scaled so that $|x[n]| < 128$ for all n.
       i) Determine a best estimate of the variance of the quantization error σ_e^2.
       ii) If the sampling rate was increased by 16 times, how many bits per samples would you use in order to maintain the same level of quantization error? **(06 Marks)**
   c. Find the DTFT of $x[n] = (0.8)^n u[n]$. Using the properties of DTFT, compute the DTFT of
       i) $x[n] = (0.8)^n u[n-2]$ ii) $x[n] = n(0.8)^n u[n]$ **(06 Marks)**

2 a. Perform the i) circular convolution ii) linear convolution, using circular convolution of the sequences $x[n] = \{2, 1, 2, 1\}$ and $h[n] = \{1, 2, 3, 4\}$ **(06 Marks)**
   b. Consider a FIR filter with impulse response $h(n) = \{3, 2, 1, 1\}$. If the input is $x[n] = \{1, 2, 3, 3, 2, 1, -1, -2, -3, 5, 6, -1\}$, find the output using overlap-Add method. **(08 Marks)**
   c. Compare IIR and FIR filters. **(06 Marks)**

3 a. Consider an IIR filter with transfer function
   $$H(z) = \frac{2z^2 - z + 1.5}{z^2 - 1.6z + 0.8}$$
   Draw the type I block diagram realization of $H(z)$ and obtain the state space equations of the output equations in matrix form. **(08 Marks)**
   b. Find the reflection coefficients and the lattice structure of an IIR filter given by $H(z) = 1/A(z)$ where
   $A(z) = 1 - 0.09z^{-1} - 1.4299z^{-2} + 0.2789z^{-3} + 0.4048z^{-4} - 0.1823z^{-5} + 0.0316z^{-6}$ **(12 Marks)**

4 a. Consider a sinusoidal signal $x[n] = 5\cos(0.1\pi n)$. Determine the frequency spectrum of the sampled signal $v(n) = \delta_3[n] x[n]$. **(10 Marks)**
   b. Explain the frequency domain characterization of down sampling & up sampling. **(10 Marks)**

5 a. Explain the polyphase decomposition of a linear filter for down sampling and up sampling. **(10 Marks)**
   b. Given that $H(z) = 1 + z^{-1} + 2z^{-2} - z^{-3} + z^{-4} - z^{-5} + z^{-6}$. Show a more efficient realization in terms of polyphase decomposition for systems shown in Fig.Q5(b). **(10 Marks)**

Fig.Q5(b)

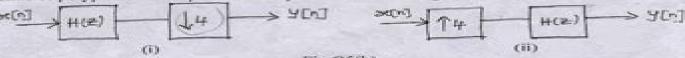$$(1 + z^{-4}) + z^{-1}(1 - z^{-4}) + z^{-2}(2 + z^{-4}) + z^{-3}(-1)$$

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