

12. (a) (i) Explain the advantages of FIR filters over IIR filters. (6)
(ii) Design a low pass FIR filter using rectangular Window with $N = 7$ and cut off frequency 0.5 rad/sec. (10)

Or

- (b) (i) Discuss the characteristic features of Butterworth filters. (6)
(ii) Design a digital Butterworth filter with a maximum passband attenuation of 2db at 20 rad/sec and at least -10 dB stop band attenuation at 30 rad/sec using Bilinear transformation method. (10)
13. (a) Explain how fixed point representations are different from floating Point representation. Compare them in terms of truncation and rounding-off error. (16)

Or

- (b) What is quantisation noise? Mention their causes/sources Derive the expression for quantisation noise power. Comment on the obtained expression. (16)
14. (a) (i) Let $x_1(n)$ and $x_2(n)$ be uncorrelated signals. Show that if $x(n) = x_1(n) + x_2(n)$ then $\mu_x = \mu_{x_1} + \mu_{x_2}$ and $\sigma_x^2 = \sigma_{x_1}^2 + \sigma_{x_2}^2$. (8)
(ii) Write a detailed technical note on the use of DFT in power spectrum estimation. (8)

Or

- (b) (i) The N -Point DFT of a random sequence $x(n)$ is,
$$X(k) = \sum_{n=0}^{(N-1)} x(n) e^{-j2\pi kn/N}$$
. Determine the variance and autocorrelation of $X(k)$. (8)
(ii) Explain the Blackman and Tukey method of power spectrum estimation. (8)
15. (a) (i) Describe the features of the Harvard architecture. (8)
(ii) Explain the function of the MAC unit in the DSP processor architecture. (8)

Or

- (b) (i) Explain the stages involved in pipelining. (8)
(ii) Explain the various addressing modes used in TMS 320C5x DSP processors. (8)

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