Assignment 5

Qn	List of Questions
1	State and prove Sampling Theorem for low pass band limited signal
2	What do you mean by alising. How it can be avoided?
3	The signal V(t)= $\cos 5\pi t + 0.5\cos 10\pi t$ is instantaneously sampled. Calculate the Nyquist rate and Nyquist interval.
4	Explain with neat diagram and waveforms generation and detection of natural and flat top PAM
5	Compare Natural PAM and Flat Top PAM
6	Draw the block diagram of PWM generator and detector.
	Explain the working giving waveforms at the output of each block.
7	With the help of neat block diagram and waveforms
	demonstrate the working of PPM generation and degeneration.
8	Compare PAM, PWM and PPM
9	Describe quantization noise or quantization error
10	What is companding explain. Show how companding reduces the quantization error?
11	Write A-law and μ-law companding
12	Draw the block diagram of a PCM system and explain the function of each block
13	Explain the working of Delta Modulator Transmitter and Delta modulator receiver with neat block diagrams
14	What are the limitations of linear Delta Modulator? How they are overcome in Adaptive Delta Modulator
15	Draw the block diagram of ADM Transmitter and Receiver and explain their working
16	Compare PCM, DM and ADM