

Part-B

2018/CSE0621

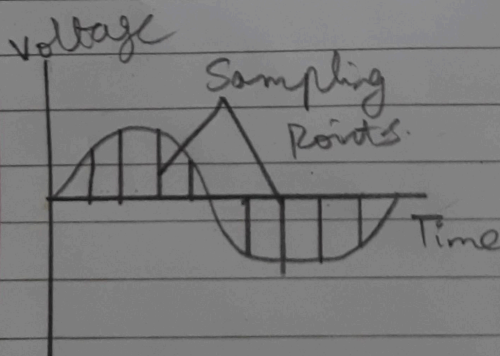
8.2] Sampling:-

- The term sampling refers to take samples
- We digitize x-axis in sampling
- It is done on independent variable.
- It is divided into 2 parts, up sampling and down sampling.

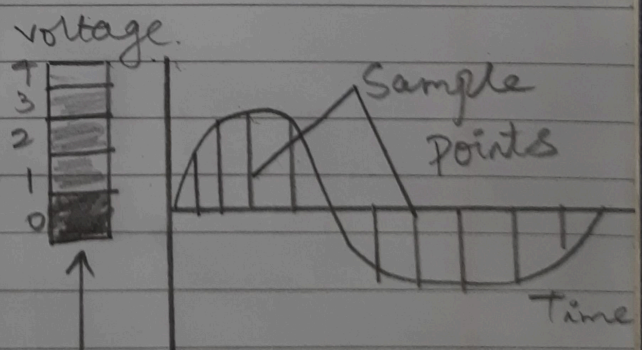
→ Quantization:

- It is the opposite of sampling.
- Sampling is done in x-axis whereas quantization is done on the y-axis.
- Digitizing the Amplitude is called quantization.
- It involves assigning a single value to each samples.
- We divide signal amplitudes into partitions (Quanta)

→ Sampling



Quantization



Vertically ranging values
have been quantized
into 5 levels