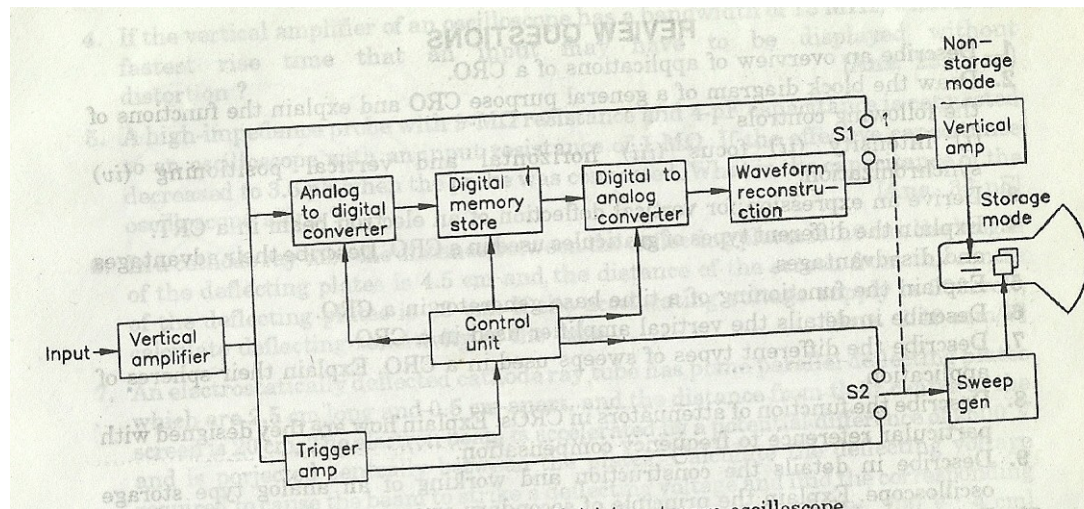


# Digital storage oscilloscope(dsO)



# Digital storage oscilloscope(dsO)

- ▶ The input signal is converted into a digital form and stored in memory.It is then converted back into analog signal,reconstructed and presented to CRT display.


# Digital storage oscilloscope(dsO)

- ▶ The logic control provides the synchronous operation of the oscilloscope.its functions include:
  - 1)To receive trigger pulses.
  - 2)To determine sampling rate of ADC.
  - 3)Controlling entry of data into store.
  - 4)Controlling the release of data stored into DAC.
  - 5)Controlling DAC by determining its speed and release of data of the CRT.

# Digital storage oscilloscope(dsO)

- ▶ Applications of storage oscilloscope:-
  - To display and analyse transient waveform .
  - To display low frequency waveforms without flicker.
  - To provide comparison between stored and real time waveforms.
  - Pre triggering viewing.
  - Interfacing to computer/printer etc.

# Oscilloscope Amplifiers

- ▶ A.C.coupled amplifiers
  - ▶ D.C.coupled amplifiers
  - ▶ Narrow bandwidth amplifiers
  - ▶ Broad bandwidth amplifiers
  - ▶ Vertical amplifier
  - ▶ Horizontal amplifier
- 

# VIRTUAL LAB LINK

**<http://iitg.vlab.co.in/?sub=61&brch=174&sim=1058&cnt=3105>**