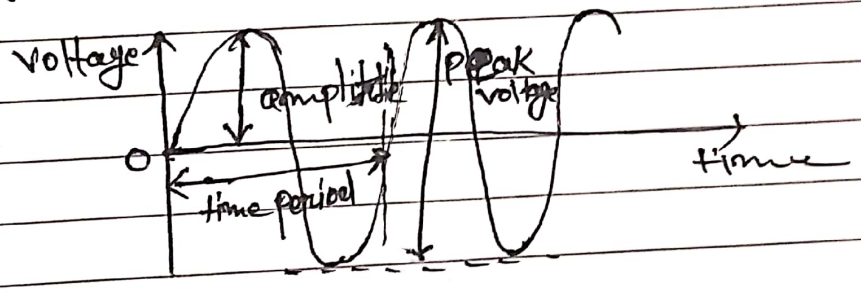
Date
5/02/2024

B.Sc
Part - II

The CRO used to measure various electrical quantities such as voltage, current and frequency. The electron beam is directed at a phosphor-coated screen to produce a visual representation of the electrical signal To measure a specific electrical quantities The CRO is connected in parallel or series with the circuit under test and the voltage or current waveform is displayed on the screen. By analyzing the waveform, the CRO can provide accurate reading of various electrical quantities such as peak voltage, frequency another.

⇒ Calculation of Amplitude → The voltage signal is displayed on the screen as if



it was a time function. The signal's amplitude is consistent, but using the volt/division button on top of the CRO board. We can adjust how many division are used to conceal the voltage signal in a vertical direction. So using the method below, We can measure the signal's amplitude it appears on the CRO screen.

$$A = J \times n V$$

where, A = Amplitude of the signal
J = is the voltage/division value

and nv = no of ~~partition~~ partition that covers the displayed sign in vertical axis.

K.