

EIM (EE IInd year)

Note - Attempt any five questions.

Ques-1

- (a) Explain the attraction & Repulsion type moving iron instruments.
- (b) Define the terms, Accuracy, Precision, Sensitivity, True value & Resolution. with example.
- (c) Explain block diagram & working principle of Q meter.

Ques-2

- (a) Write the front panel controls present in a CRO.
- (b) Explain the blanking circuit and need of synchronization in CRO.

Ques-3

- (a) Explain the integrating type DVM & draw the waveforms.
- (b) Explain the block diagram of pulse generator. Also write its specifications.

Ques-4

- (a) Write short notes on :- (i) Hay's bridge (ii) RLC bridge
- (b) Explain the block diagram of Universal Time Counter.

Ques-5

- (a) Explain the spectrum analyzer & its Application.
- (b) Explain the Anderson's bridge.

Ques-6

- (a) Explain the PMMC type moving coil instruments.
- (b) Compare (i) Analog and digital instruments
(ii) AC and DC bridge.
- (c) Explain how ~~from~~^{from} the Lissajous pattern appearing on the screen of a CRO, the phase and frequency of an unknown signal can be determined.