

1. Briefly discuss high frequency CRO considerations. Also, draw the block diagram of CRO and explain its operation. Give its merits and applications. **20**
2. (a) Discuss in detail the role, significance and working of Q-meters. **10**
(b) Briefly describe the operation of instruments used for measurements of voltage and other circuit parameters. **10**
3. Explain the following in detail : **10+10**
(a) Pulse generator and its applications
(b) Harmonic analyser and its applications.
4. Define the term DCA. Briefly explain the design and working of Universal counter. Also its various advantages, disadvantages and applications. **20**
5. Describe the following :
(a) Principle and working of LED's
(b) Nixie Tubes. **10+10**

6. Explain the following in detail. **8+12**
(a) Construction and operation of Photocell
(b) Measurement of displacement, pressure and strain.
7. Briefly describe the working and applications of the following : **10+10**
(a) AC signal conditioning system
(b) Data acquisition and conversion systems.
8. Write short notes on the following : **10+10**
(a) Sampling and Storage Oscilloscopy
(b) Digital meters.

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Roll No.

W-422

B. Tech. EXAMINATION, Dec. 2018

(Fourth Semester)

(Weekend) (Re-appear Only)

(EE, ECE)

ECEW204

ELECTRONICS MEASUREMENT AND
INSTRUMENTATION

Time : 3 Hours]

[Maximum Marks : 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt any *Five* questions. All questions carry equal marks.

(3-40/18)M-W-422

P.T.O.