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B.Tech. 5th Semester (EEE) F. Scheme Examination,

December-2017

ELECTRONIC MEASUREMENT AND

INSTRUMENTATION

Paper-EE-339-F

Time allowed: 3 hours]

[Maximum marks: 100

Note: Attempt five questions, Q. No. 1 is compulsory and attempt one question from each of four sections.

- 1. (a) Describe how phase angle measurement can be done with use of CRO. 5×4=20
 - (b) What is sample and hold circuit?
 - (c) What are bonded and unbonded types of straingauges?
 - (d) Discuss seven segment display.

Section-I

- 2. Describe principle of working and circuit diagram of digital oscilloscope. 20
- 3. With the help of suitable block diagram, discuss in detail about Function Generator.

Section-II

- 4. (a) Discuss the instruments used for measurement of voltage.
 - (b) Explain Q meter in detail. 10
- With the help of suitable diagram, discuss in detail about Universal Counter.

Section-III

- 6. (a) Describe the principle and working of Nixie tubes.
 - (b) Describe the construction and working of LCD.
 Explain its advantages and disadvantages.
- Explain construction and working of L.V.D.T. with suitable application.

Section-IV

- B. Draw block diagram of ac signal conditioning system and explain the function of each block. 20
- 9. Explain the following:

20

- i) Temperature Measurement
- (ii) Decade Counting Assembly.