http://www.HaryanaPapers.com

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

December-2017

ELECTRONIC MEASUREMENT AND

INSTRUMENTATION

Paper-EE-303-F

Time allowed: 3 hours]

[Maximum marks: 100

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

- 1. (a) What is Sample and Hold Circuit?
 - (b) How frequency can be measured with CRO?
 - (c) Describe engineering applications of wave analyzers.
 - (d) Give advantages of electronic chopper over electromechanical chopper.

Section-A

- What is Oscilloscope? Draw the neat block diagram of CRO and explain each block there in.
- 3. (a) Explain φ-meters in detail.
 - (b) What is wave analysis? Explain distortion analysers.

Section-B

4. Explain function of each block of universal counter. What are the different modes of operation? Describe its use as a frequency counter.

- 5. (a) Classify transducers in detail.
 - (b) Explain measurement of pressure.

Section-C

- 6. Describe working of frequency distortion analyser with the help of block diagram.
- 7. With the help of suitable block diagram, discuss in detail about function generator.

Section-D

- 8. Explain with neat block diagram the DC signal conditioning system.
- 9. Write short notes on:
 - (i) Thermocouples
 - (ii) LVDT.