

**24236**

**B. Tech. 5th Semester (ECE) Examination,  
December – 2015**

**ELECTRONIC MEASUREMENT &  
INSTRUMENTATION**

**Paper-EE-303-F**

*Time allowed : 3 hours ]*

*[Maximum marks : 100*

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- Note : (i) Question No. 1 (Section-A) is compulsory.*
- (ii) Attempt four more questions from remaining four Sections (B, C, D & E) by selecting at least one question from each section.*

**Section-A**

1. (a) Explain the method of measurement of phase with C.R.O. 5
- (b) Explain the application of digital meter. 5
- (c) Explain FFT analyser in brief. 5
- (d) Explain the classification of Transducers. 5

**Section-B**

2. Draw and explain the block diagram of CRO in detail. 20
3. Explain the construction and working of sampling and storage oscilloscope. 20

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**Section-C**

4. Explain the construction and working principle of the instruments used for measurement of voltage and current. 20
5. Explain chopper amplifier type voltmeter and true RMS voltmeter. 20

**Section-D**

6. Draw and explain the block diagram of function of generator. 20
7. Explain spectrum analyser and Harmonic analyser in detail. 20

**Section-E**

8. Explain the Basic schemes of measurement of displacement and acceleration with the help of transducers. 20
9. Differentiate between DC signal conditioning system and AC signal conditioning system. 20