

V. P. & R. P. T. P. Science College  
First Internal Exam  
US06CELE-04

11:00 a.m. to 12.30 p.m.  
Total Marks 25  
15/3/2018

**Q. 1 Multiple Choice Questions:**

03

1. Complex waveforms are most accurately measured by
  - (i) average responding voltmeter
  - (ii) true rms responding voltmeter
  - (iii) direct responding voltmeter
  
2. A sample and hold circuit is used in Successive approximation voltmeter while measuring
  - (i) dc voltage
  - (ii) ac voltage
  - (iii) none of above
  
3. Photo sensitive chart paper is used for ----- writing in strip chart recorder.
  - (i) Optical
  - (ii) Electrical
  - (iii) Thermal



**Q. 2 Answer any two questions in short.**

04

1. How input impedance is increased in case of amplified DC meter?
2. List the names of Digital Voltmeters you know.
3. Explain briefly Thermal writing

Q.3 Explain in detail working of True RMS responding voltmeter.

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OR

Q.3 Describe in detail amplified DC meter.

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Q.4 Obtain expression for various components using series connection method of Q meter.

OR

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Q.4 Describe working of successive approximation DVM.

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Q.5 Explain fully X-Y recorder.

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OR

Q.5 Explain Magnetic recorders.

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\*\*\*\*\*BEST OF LUCK \*\*\*\*\*