

S. 6

Code No.: 9A04604/R09

B.Tech. III Year II Sem. Regular and Supplementary Examinations

April/May - 2013

Set-2

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

(Electronics and Communication Engineering)

Time: 3 Hours

Max. Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Explain the principle used in ohmmeters.
(b) Explain with the help of circuit diagram the construction and working of a series type ohmmeter.

2. (a) Write about fixed frequency AF oscillator and variable AF oscillator.
(b) Describe with the help of a sketch the basic sine wave generator.

3. (a) Describe with diagram the operation of a digital Fourier analyzer.
(b) Explain in brief the operation of a practical FFT spectrum analyzer.

4. (a) What are the advantages of dual trace oscilloscopes over dual beam CRO?
(b) Explain the operation of delayed sweep CRO.

5. Describe the principle of working and circuit diagram of a digital oscilloscope.

6. Explain in detail about EMI and EMC with suitable examples.

7. (a) Explain the input and output characteristics of the transducers.
(b) Discuss the materials used for potentiometers.

8. Describe components of an analog-data-acquisition system.