

Seat
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मध - 032

Electronics Measurements (1080)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Assume suitable data if necessary.
5. Figures to the right indicate full marks.
6. Attempt **any two** questions from each unit.
7. Use of non-programmable calculator is allowed.

UNIT - I

1. a) What are the different connections in Q meter ? Explain any one in detail with the help of diagram. 10
b) Explain vector voltmeter with the help of block diagram. 10
c) To determine the self capacitance of a coil, the coil is resonated at 8 MHz, with 120 PF and then is resonated at 12 MHz with 40 PF. Calculate the inductance and self capacitance. 10

UNIT - II

2. a) Explain digital frequency counter with the help of block diagram. 10
b) Explain Digital Tachometer and digital pH meter with the help of diagram. 10
c) Explain digital capacitance meter and digital phase meter with the help of diagram. 10

UNIT - III

3. a) Explain frequency synthesized signal generator with the help of diagram. 10
b) Write a short note on spectrum analyzer and Logic analyzer. 10

- c) Explain OTDR with the help of diagram and Draw its typical display. 10

UNIT - IV

4. a) Explain Digital storage oscilloscope with the help of block diagram. 10
- b) Explain Dual trace oscilloscope with the help of diagram. Explain different modes of operation. 10
- c) Write a short note on sampling oscilloscope and CRO probes. 10

UNIT - V

5. a) Explain Data Acquisition system with the help of diagram. 10
- b) What is computer controlled test system ? Explain the testing of Audio amplifier and Radio Receiver. 10
- c) Write a short note on Telemetry system and data loggers. 10
