



## 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. Answer sheet 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. Solve **any two** questions from each unit.
5. Non programmable calculator is allowed.
6. Marks to the right indicates full marks.

### UNIT - I

1. With the help of block diagram explain the operation of vector voltmeter. **10**
2. A coil with a resistance of  $8\Omega$  is connected in the direct connection mode of Q - meter Resonance occurs when the oscillator frequency is 1.5 MHz & the resonating capacitor is set at 60pf. Calculate the q error introduced in the calculated value of Q by the  $0.02\Omega$  insertion resistance. **10**
3. Draw and explain the Modern Bolometer power meter circuit. **10**

### UNIT - II

1. Explain with the help of block diagram. **10**
  - i) Time base selector.
  - ii) Period Measurement.
2. With the help of neat sketch describe the working of digital phase meter circuit. **10**
3. What is tachometer ? Explain the working of digital tachometer. **10**

### UNIT - III

1. Write short notes on. **10**
  - i) Wobbuloscope.
  - ii) Random noise generator.
2. Explain with block diagram function generator. **10**
3. With the help of block diagram explain the logic Analyser. Give its applications & features. **10**

**UNIT - IV**

1. With the help of block diagram explain the various front panel controls of CRO. **10**
2. Give the difference between dual trace & dual beam oscilloscope. **10**
3. Write short notes on. **10**
  - i) Applications of CRO.
  - ii) Digital Readout oscilloscope.

**UNIT - V**

1. Explain computer controlled testing of an audio amplifier & Radio receiver. **10**
2. What do you know about. **10**
  - i) PC base data acquisition system.
  - ii) Data loggers.
3. What is data acquisition ? What are basic task of DAS ? Explain difference between analog & digital DAS. **10**

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