Question Bank (K-scheme)

Unit Test II

Course: Electrical & Electronic Measurement

Code: (313334) Abbreviation – EEM

Semester: 3K Program: EE

Unit IV- Transducers and Pressure Measurements (14Marks)

2 Marks Questions:

- 1) Classify Transducers
- 2) Define Transducer.
- 3) What are types of strain gauges?
- 4) Give any two diffrences between analog and digital trasducers.
- 5) Define Strain.
- 6) What is LVDT?
- 7) Define Pressure and state its unit.
- 8) State types of Bourden Tubes.
- 9) State types of Diaphragms.

4 Marks Questions:

- 10) Explain working of flat Diaphragm.
- 11) Draw a labeled diagram of Bourden Tube Pressure Gauge.
- 12) Explain force measurement using load cell.
- 13) Explain working of LVDT.
- 14) With neat sketch explain un-bonded metal foil strain gauge.
- 15) Give advantages and disadvantages of LVDT.
- 16) What are desired characteristics of resistance strain gauge.
- 17) Explain working of Inductive transducers.
- 18) With neat sketch explain photovoltaic cell.

UNIT V: Flow , Level & temperature Measurement (14 marks)

2 Marks Questions:

- 19) Classify flow meters.
- 20) What are types of Electrical flow meter?
- 21) Classify levele measurement transducer.

- 22) Draw Variable head flow meter.
- 23) Draw well labeled diagram of variable area flow meter,
- 24) State working principle of thermistor.
- 25) What are possible RTD configuration.
- 26) Draw RTD charectrestics.

4 Marks Questions:

- 27) Draw and explain Electromagnetic flow meter.
- 28) Draw well labeled diagrams of variable head and variable area flow meters.
- 29) Draw and explain turbine flow meter.
- 30) Draw and explainUltrasonic flow meter.
- 31) Draw and explain Inductive transducer for level measurement.
- 32) Draw and explain Capacitive transducer for level measurement.
- 33) What is ultrasonic method of level measurement?
- 34) Draw characteristics of thermistor and explain.
- 35) Draw RDT and explain.
- 36) What is thermocouple and what are its junctions?

UNIT III: Digita Measuring Instruments (5 Marks) 2 Marks Questions:

- 37) Draw block diagram of digital frequency meter.
- 38) What are types of phase sequence indicator
- 39) What is CRO? what are its applications?
- 40) State two advantages of Digital Storage Osciloscope.

4 Marks Questions:

- 41) Draw well labeled diagram of Wheston frequency meter.
- 42) Explain working of phase sequence indicator.
- 43) Draw well labeled diagram of Cathode Ray Tube.
- 44) Draw block diagram of Digital Storage Osciloscope and explain.

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