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Roll No.

ODD SEMESTER EXAMINATION 2019-20 B.TECH V SEM (EE/EEE)

APPLIED & ELECTRONIC INSTRUMENTATION

Time: 3 Hours

Max. Marks: 100 Total no. of printed pages: 1

Note: All questions are compulsory.

Q1: Attempt any FOUR questions.

4x5 = 20

- a) What is DC Tachometer generator?
- b) Give classification of Transducer.
- c) Explain Thermoelectric effects..
- d) State the advantages of current telemetry system.
- e) What is RTD?

Q2: Attempt any FOUR questions.

2x10=20

- a) Give the applications of capacitive transducer.
- b) Explain Wheatstone bridge method for two active branches.
- c) What is an analog electronic voltmeter? Explain its working.
- d) Define the terms 'Data transmission' and 'Telemetry'.
- e) What is SNR? Why there is a need to improve it? And how improvement of SNR is done?

Q3: Attempt any two questions:

2x10=20

- a) Explain temperature compensation.
- b) Classify Digital voltmeters. Explain successive approximation type DVM.
- c) Explain the methods of improvement of signal to noise ratio.

Q4: attempt any two questions:

2x10=20

- a) What are the different Telemetry systems?
- b) Describe briefly how a strain gauge torsion meter is used to measure the torque.
- c) Explain pulse width modulation.

Q5: Attempt any two questions:

2x10=20

- a) What is load cell? Explain any one in detail.
- b) Explain construction and working principle Piezoelectric Accelerometer
- c) Explain construction and working of LVDT.