18ME46B/18MEB406

Fourth Semester B.E. Degree Examination, June/July 2023

Max. Marks: 100

(05 Marks)

(08 Marks)

Define Standard in Measurement. How are the standards classified? Explain with example. (07 Marks)

Identify different parts of sine center and explain how taper angles are measured. (08 Marks)

(04 Marks)

(08 Marks)

(06 Marks)

(08 Marks)

(06 Marks)

(05 Marks)

(07 Marks)

What is LVDT? With a diagram, explain the Operating principle / working and applications (08 Marks)

(04 Marks)

(08 Marks)

(10 Marks)

(10 Marks)

With the aid of a block diagram, explain the three stages of a generalized measurement 7 (10 Marks)

ii) Precision Discuss the terms with relevant sketches: i) Accuracy

(10 Marks) Threshold. Calibration Linearity iv)

OR

1 of 2

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

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Mention any five Mechanical and five Electrical transducers. (05 Marks)

(07 Marks) Describe in detail a ballast circuit. b.

What are X - Y plotters? With block diagram, explain working of X - Y plotters. (08 Marks)

(10 Marks) Discuss the working of McLeod gauge. 9 a.

Explain the working of Prony brake dynamometer. b.

(10 Marks)

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Summarize the laws of Thermocouple and Resistance Thermo meter with sketch. (10 Marks) 10

Define Gauge factor of a strain gauge and explain with a neat sketch, measurement of strain (10 Marks) using wheat stone bridge circuit.