

S. B. Roll. No.....

ELECTRONIC INSTRUMENTS & MEASUREMENTS
3rd Exam/ECE/4361/Jun'2021
(For 2018 Batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Draw and explain the block diagram of function generator.
- ii. Define distortion factor meter with help of block diagram.
- iii. Explain loading effect in instruments in detail.
- iv. Differentiate between active and passive transducers with example.
- v. Explain the working principle of ramp type digital voltmeter.
- vi. What are the basic requirements of a transducer?
- vii. What is a wave analyzer? Discuss basic wave analyzer.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. What are the different types of errors in measurements? Explain in detail.
- b. Draw the block diagram of a general purpose Oscilloscope and explain its individual block.
- c. Explain the principle of operation of attraction type moving iron instruments and explain how the controlling and damping forces are obtained.
- d. Explain the working principle of LVDT transducer.
- e. Differentiate between analog and digital instruments.