# 6216

### BOARD DIPLOMA EXAMINATION, (C-16)

### MARCH/APRIL-2021

#### DAEI - THIRD SEMESTER EXAMINATION

## ELECTRONIC MEASURING INSTRUMENTS

Time: 3 hours ]

total Marks : 80

3×10=30

KR LSHM

#### PART—A

**Instructions**: (1) Answer **all** questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- 1. List the different torques needed for driving analog instruments.
- 2. State the need for high input impedance for a voltmeter.
- 3. Give the classification of bridge circuits.
- 4. List any three advantages of digital instruments over analog instruments.
- 5. List any three specifications of digital multimeter.
- 6. Write the procedure for measurement of frequency using CRO.
- 7. Write the expression for deflection sensitivity in CRO.
- 8. List any three specifications of CRO.
- **9.** List any three front panel controls of AF Oscillator and state their functions.
- 10. Define Q factor.

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 $10 \times 5 = 50$ 

(2) Each question carries ten marks.

PART-B

- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer. RISH
- Explain the principle and working of rectifier type voltmeter. 11.
- Explain the inductance measurement using Maxwell's Bridge. 12.
- Explain the working of successive approximation type digital voltmeter 13. with block diagram.
- Explain the working of digital frequency meter with block diagram. 14.
- Explain the block diagram of CRO. 15.
- Explain triggered sweep generator with necessary circuit. 16.
- Explain the working of function generator with block diagram. 17.
- Explain the working of XY recorder with diagram. 18.