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BOARD DIPLOMA EXAMINATION, (C-16) OCTOBER-2020

DECE—FOURTH SEMESTER EXAMINATION

ELECTRONIC MEASUREMENT AND CONSUMER GADGETS

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

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 advantages and disadvantages of FET input voltmeter.
- 2. List the characteristics of ideal ammeter.
- **3.** Define deflection sensitivity of CRO.
- 4. List the different types of probes in CRO.
- 5. What is the need for recorder?
- 6. Explain the need for shielding in RF generator.
- 7. Define the directivity of microphone.
- 8. Compare permeance of cone type and horn type loud speaker.
- 9. What is a colour burst signal?
- **10.** What are the differences between additive and subtractive mixing of colours?

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[Contd....

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PART—B

Instructions : (1) Answer any five questions.

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- (2) Each question carries ten marks.
- (3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.
- 11. Explain the construction and working of PMMC instrument.
- **12.** Explain how the time period, frequency, phase, depth of modulation is measured using CRO.
- 13. Explain the working of dual trace CRO with block diagram.
- 14. Draw the block diagram of AF oscillator and explain.
- **15.** Describe the construction and working of crystal microphone along with its characteristics.
- 16. Explain how noise in reduced in Dolby system.
- **17.** Explain the horizontal scanning and vertical scanning with necessary figures.
- 18. Write frequency allocation of TV channels used in India.

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