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BOARD DIPLOMA EXAMINATION, (C-16) MARCH/APRIL-2018

DECE—FOURTH SEMESTER EXAMINATION

ELECTRONIC MEASUREMENTS AND CONSUMER GADGETS

Time : 3 hours]

2

[Total Marks : 80

PART—A

3×10=30

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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.** Define accuracy of a meter.
- 2. Explain the principle of extending the range of DC ammeter.
- **3.** Write the procedure for measurement of depth of modulations using CRO.
- 4. Define deflection sensitivity of CRO.
- 5. List any three applications of RF signal generator.
- 6. List any four front panel controls of AF oscillator.
- 7. List the advantages of magnetic recording.
- 8. Mention the use of woofers and tweeters.

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- 9. List the features of HDTV.
- 10. List any three standards of PAL colour transmission system.

 $10 \times 5 = 50$

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Instructions : (1) Answer any **five** questions.

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criterion
 (3) for valuation is the content in the answer.
- 11. Explain the working of FET input voltmeter with a circuit diagram.
- 12. Draw the block diagram of general-purpose CRO and explain the function of each block.
- 13. Explain the method of conversion of single-trace CRO into dual-trace CRO with block diagram. Ô
- 14. Explain the working of AF oscillator (sine and square) with block diagram.
- **15.** Explain the working of dynamic microphone along with their polar characteristics. 8+2=10
- **16.** Explain the concept of noise reduction using Dolby system and features of Dolby Digital 5.1 Surround Sound. 7+3=10
- **17.** Draw the block diagram of a color TV transmitter and state the function of each block.
- **18.** (a) State the need for satellite for TV broadcasting. 5 (b) Distinguish between progressive and interlaced scanning in TV. 5