

BOARD DIPLOMA EXAMINATION, (C-16)

OCTOBER/NOVEMBER—2023

DECE – FOURTH SEMESTER EXAMINATION

ELECTRONIC MEASUREMENTS 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 characteristics of a ideal ammeter.
- **2.** List the three advantages of digital instruments over analog instruments.
- **3.** List the conditions for stationary waveforms.
- **4.** Define deflection sensitivity of CRO.
- **5.** List the specifications of RF signal generator.
- **6.** List the front panel controls of AF oscillator.
- **7.** Mention the use of woofers and tweeters.
- **8.** Define the concept of Hi-Fi and stereo.
- **9.** State the need for horizontal and vertical scanning.
- **10.** State the need for SET TOP BOX.

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PART—B

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- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **11.** Explain the working of ramp type digital voltmeter with a block diagram
- **12.** Explain the method of conversion of single trace CRO into DUAL trace CRO with block diagram.
- **13.** Using diagram explain triggered sweep circuit with UJT.
- **14.** Explain the working of digital IC tester with a block diagram.
- **15.** Explain the basic principle of magnetic recording and reproduction.
- **16.** Explain the principle, construction and working of crystal headphones and their uses.
- **17.** Draw the block diagram of a colour TV transmitter and state the function of each block.
- **18.** (a) State the need of satellite for TV broadcasting over wide area.
 - (b) List the features of SMART TV.

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