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BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—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 ideal ammeter.
2. Define accuracy of a meter.
3. List the conditions for flicker free waveforms in a CRO.
4. Write the procedure for frequency measurement using CRO.
- * 5. List any three applications of RF signal generator.
6. State the need for plotters.
7. State the use of woofers and tweeters.
8. List any three advantages of magnetic recording.
9. List the merits of DTH system.
10. List any three features of SMART TV.

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PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.
(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. Draw the block diagram of general purpose CRO and explain the function of each block.
13. Explain triggered sweep circuit with UJT with a circuit diagram.
14. Explain the working of function generator with a block diagram.
15. Explain the construction and working of magnetic head phones.
16. Explain home theatre sound system,
17. Draw the block diagram of colour TV transmitter and state the function of each block.
18. (a) Distinguish between progressive and interlaced scanning.
(b) State the need for satellite for TV broadcasting over wide area.

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