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BOARD DIPLOMA EXAMINATION
JUNE - 2019
DIPLOMA IN ELECTRONICS AND COMMUNICATION ENGINEERING
ELECTRONIC MEASUREMENTS & CONSUMER GADGETS
FOURTH SEMESTER EXAMINATION

Time: 3 Hours **Total Marks: 80**

PART - A (3m x 10 = 30m)

Note 1:Answer all questions and each question carries 3 marks

2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. **List the characteristics of ideal voltmeter.**
2. **Draw the circuit diagram of rectifier type ammeter.**
3. **Explain the procedure for measurement of depth of modulation using CRO**
4. **Mention the conditions for flicker free waveforms.**
5. **Explain the importance of shielding in RF generators**
6. **List the front panel controls of AF Oscillator**
7. **State the advantages of Horn loud speaker**
8. **Define the concept of Stereo**
9. **Explain the need for horizontal and vertical scanning in TV**
10. **List the merits of DTH system.**

PART - B (10m x 5 = 50m)

Note 1:Answer any five questions and each carries 10 marks

2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. **Explain the principle of extending the range of DC voltmeter**
12. **Explain the principle and working of Digital Storage CRO using block diagram**
13. **a) Draw the circuit diagram of triggered sweep circuit using UJT 4M**
    b) Explain the function of various controls on front panel of CRO 6M
14. **Explain the working of AF Oscillator with block diagram**
15. **Explain the construction and working of dynamic microphones**

16. Explain how noise is reduced using DOLBY system and List the features of Dolby

17. Draw the block diagram of a colour TV receiver and state the function of each block.

18. Explain how chrominance signals are transmitted on one carrier in PAL system

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