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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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A.A.N.M & V.V.R.S.R POLYTECHNIC GUDIAVALLERU, KRISHNA Dist, A.P