



C16-EC-404

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BOARD DIPLOMA EXAMINATION, (C-16)
SEPTEMBER/OCTOBER - 2020
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. Mention any three characteristics of ideal ammeter.
2. List any three advantages of digital instruments over analogue instruments.
3. Write any three front panel controls of CRO.
4. List the conditions for flicker free waveform in oscilloscope.
5. State the specifications of AF oscillator.
6. Write any three applications of RF signal generator.
7. List any three disadvantages of magnetic recording.
8. State the specifications of microphone.

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[*Contd...*

9. Distinguish ^{*} between progressive and interlaced scanning.
10. List any three standards of PAL color transmission system.

PART—B

10×5=50

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

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Explain the working of RAMP type digital voltmeter with block diagram.
12. Explain the principle of working of digital storage CRO using block diagram.
13. Draw the circuit diagram of triggered sweep circuit with UJT and explain.
14. Explain the working of AF oscillator (sine and square) with block diagram.
15. Explain the constructional features and principle of operation of PMMC loudspeaker.
16. Explain the concept of noise reduction using DOLBY system.
- * 17. Draw and explain the block diagram of color TV transmitter.
18. (a) Explain the main characteristics of human eye with regard to perception of colors.
- (b) List the features of HDTV.
