

6216
BOARD DIPLOMA EXAMINATION
JUNE - 2019
DIPLOMA IN APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING
ELECTRONIC MEASURING INSTRUMENTS
THIRD 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. Draw the diagram of extending the range of DC voltmeter
2. Draw the diagram of FET input voltmeter
3. Draw the diagram of extending the range of DC ammeter
4. Write the advantages of digital instruments over analog instruments
5. Draw the block diagram of digital frequency meter
6. State the necessity of time base generator
7. List any three applications of CRO
8. State the principle of triggered sweep circuit
9. List any three front panel controls of Audio Frequency Oscillator
10. List any three applications of plotters

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

Note 1: Answer any five questions and each question 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 Inductance measurement using Maxwell's bridge with diagram
- * 12. Explain the construction and principle of operation of Series type ohmmeter with diagram
13. Explain the working of digital multi meter with diagram
14. Explain the working of digital LCR meter with diagram
15. Explain the working of Dual Trace oscilloscope with block diagram
- * 16. Explain triggered sweep with necessary circuit and mention its advantages

17. Explain the working of function generator with block diagram

18. Explain the working of Q-meter with diagram

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A.A.N.M & V.V.R.S.R POLYTECHNIC , GUDLAVALLERU , KRISHNA

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