



C09-AEI-402

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BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2021

DAEIE - FOURTH SEMESTER EXAMINATION

ELECTRONIC MEASURING INSTRUMENTS

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **four** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Classify the analog measuring instruments.
2. State the importance of loading effect.
3. State the Principle of differential voltmeters.
4. List any three advantages of digital instruments over analog instruments.
5. List the specifications of digital multimeter.
6. State the necessity of time base generator.
7. Write the expression for deflection sensitivity.
8. List the condition for stationary waveform.
9. List the applications of AF oscillators.
10. State the necessity of recorders.

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the construction and principle of operation of PMMC instrument.
12. Explain the principle of extending the range of DC voltmeter.
13. Explain the working of digital frequency meter with diagram.
14. Explain the working of successive approximation type digital voltmeter with diagram.
15. Explain the block diagram of cathode ray tube.
16. Explain the triggered sweep with necessary circuit.
17. Explain the working of AF oscillator with diagram.
18. Explain the working of digital IC tester with diagram.

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