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BOARD DIPLOMA EXAMINATION, (C-09) MARCH/APRIL-2017

DECE—FOURTH SEMESTER EXAMINATION

ELECTRONIC MEASURING INSTRUMENTS

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. Write the principle of extending the range of DC ammeter.
- **2.** Give the basic principle of d'Arsonval movement.
- **3.** Write the principle of shunt-type ohmmeter.
- **4.** List the advantages of digital instruments over analog instruments.
- **5.** List the specifications of digital voltmeters.
- 6. List any three specifications of digital multimeter.
- 7. Define deflection sensitivity and write the expression for it.
- 8. List the conditions for stationary waveforms.

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- 9. List any three applications of AF oscillators.
- **10.** List any three applications of power meters.

PART—B 10×5=50

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

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **11.** Explain the construction and working of series-type ohmmeter.
- **12.** Explain the measurement of resistance using Wheatstone bridge.
- **13.** Explain the working of successive approximation-type DVM with block diagram.
- 14. Explain the working of digital LCR meter with block diagram.
- **15.** Draw the block diagram of general purpose CRO and explain the function of each block.
- **16.** Explain the working of XY recorder with block diagram.
- 17. Explain the working of a function generator with block diagram.
- **18.** Explain the working of RF signal generator with block diagram.

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