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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **ET306UX - Open Elective - I -Electronics Instruments and Applications**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

1) Solve any two sub-questions.

- a) Explain true RMS voltmeter with the help of a diagram. [6]
- b) What are the different connections of the Q meter? Explain any one connection in detail with the help of a diagram. [6]
- c) Write a short note on the digital phase meter. [6]

2) Solve any two sub-questions.

- a) Explain LVDT with the help of a diagram. [6]
- b) Explain dual trace CRO with the help of a block diagram. [6]
- c) Explain the digital storage oscilloscope with the help of a block diagram. [6]

3) Solve any two sub-questions.

- a) Explain the function generator with the help of a block diagram. [6]
- b) Explain the frequency selective wave analyzer with the help of a block diagram. [6]
- c) Explain the optical time-domain reflectometer with the help of a diagram and draw its typical display. [6]

4) Solve all sub-questions.

- a) Explain the data logger with the help of a diagram. [6]
- b) Explain the digital frequency counter counter with the help of a diagram. [6]

5) Solve all sub-questions.

- a) Explain digital multimeter with the help of a diagram. [6]
- b) Write a short note on.
 - i. Objectives of the data acquisition system. [3]
 - ii. Merits and demerits of digital over the analog transmitter. [3]

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