


**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON**

(An Autonomous Institute of Government of Maharashtra)

National Highway No.6, JALGAON – 425 002

Phone No.: 0257-2281522

Website : www.gcoe.ac.in

Fax No.: 0257-2281319

E-mail : princoe@rediffmail.com


 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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