

Roll No.

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**B.Voc. (SECOND SEMESTER)
EXAMINATION, May-June, 2022
(New Course)
RENEWABLE ENERGY TECHNOLOGY
AND MANAGEMENT
(Industrial Electronics and
Instrumentation)
(RETM-202)**

Time : Three Hours]

[Maximum Marks:80

Note : Attempt all the four questions. One question from each unit is compulsory. All questions carry equal marks.

Unit-I

1. Explain the classification of measuring instruments? What is the static characteristics of an instrument?

OR

Write short notes on :

- (A) Solar radiation measurement
- (B) Temperature measurement
- (C) Heat flux measurement

P.T.O.

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- (D) Pressure measurement

Unit-II

2. Explain the principles and classification of transducer. What are the basic requirements of transducers.

OR

Write notes on:-

- (A) LVDT and RVDT
- (B) Photo transistor
- (C) Temperature transducer
- (D) Strain gauge

Unit-III

3. What is the current shunt and voltage series feedback amplifier? Why is voltage derived as a shunt and fed as a series in a feedback amplifier? What are the applications of current shunt feedback amplifier?

OR

Explain feedback topologies with the help of neat block diagram. How does the negative feedback affect the characteristics of amplifier?

Unit-IV

4. What are the different types of OP-AMPS? What is an OP-AMP subtractor? What is the difference between an amplifier and an OP-AMP?

OR

What is the role of a signal generator? What are the functions of different components of signal generator? What are the applications of a square wave generator?

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