

Roll No. ....

Total Pages : 2

**BT-8/D-19**

**38144**

**TRANSDUCER AND ITS APPLICATIONS**

Paper-ECE-402N

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* questions in all, selecting at least *one* question from each unit.

**UNIT-I**

1. Discuss the construction, principle of working and applications of a Hall effect transducer. 15
2. What are resistive transducers? Discuss in brief various types of resistive transducers and also give an application of each. 15

**UNIT-II**

3. (a) How the force can be measured using a Strain gauge load cells? 7½  
(b) What are Transducers? Discuss the working of an electrical transducer with its advantages also. 7½
4. What are RTD's? Discuss the construction and working mechanism of RTD's. Also, describe the materials used for RTD's with their properties. 15

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[P.T.O.

**UNIT-III**

5. (a) What are Potentiometric resistance type transducers? Discuss in brief. 7½  
(b) How do inductive transducers differ from a capacitive transducers? Give an example to justify your answer. Draw appropriate diagrams also. 7½
6. Write short notes on any *two* of the following:
  - (a) Toothed rotor tachometer generator.
  - (b) Variable reluctance pick up.
  - (c) Electromagnetic tachometers. 15

**UNIT-IV**

7. How a LVDT can be used for the measurement of force? Why LVDT, though being a transformer is called as a transducer? Justify your answer. 15
8. Discuss the method of working of a torsion meter in detail with necessary diagrams. 15

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2