

R16

Code No: 138GY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, July - 2021

SENSORS AND TRANSDUCERS

(Common to EEE, CSE, IT)

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

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1. What are the different types of errors that occur during measurement? Explain each of them in detail. [15]
2. What is transducer and give its broad classification with necessary explanation. [15]
3. Explain in detail about the Dynamic response of Second order Instruments. [15]
4. Explain the static characteristics of a transducer. [15]
5. Explain the operation and construction of strain gauge. State its limitations. [15]
6. Explain with a diagram the operation of a resistance thermometer. [15]
7. Explain the operation and characteristics of LVDT with the help of a neat diagram.[15]
8. Draw and explain the equivalent circuit of a Piezo –electric transducer. [15]

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