

**Code No: 156DK****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, August/September - 2021****BASICS OF SENSORS TECHNOLOGY****(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. Explain how Eddy current sensors are used for analog determination of distance and/or position of electrically conductive objects. [15]
2. Discuss in detail about the working of resistance strain gauge. [15]
3. Explain in detail about practical thermocouple laws. [15]
4. What is piezoelectric? Explain in detail about the working of piezoelectric sensor with its equivalent circuit. [15]
5. Explain how to measure rotational velocity using stroboscopic methods. [15]
6. Explain the method of density measurement using Strain gauge load cell. [15]
7. Explain different methods of measuring consistency. [15]
8. Explain in detail about the interfacing of pressure sensor. [15]

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