NARSIMHA REDDY ENGINEERING COLLEGE
UGC AUTONOMOUS INSTITUTION
Maisammaguda (V), Kompally - 500100, Secunderabad, Telangana state, India
Accredited by NBA & NAAC with 'A' Grade
Approved by AICTE
Permanently affiliated to JNTUH

Department of Electrical and Electronics Engineering

QUESTION BANK

Electrical Measurements and Sensors (25EE305)

UNIT–V
Sensors

S.No	Questions	BT	CO	PO
	Part – A (Short Answer Questions)			
1	What are the characteristics of transducers ?	L1	CO5	PO1
2	Give the factors to be considered for selecting a transducer	L1	CO5	PO1
3	Define inverse transducer with example	L1	CO5	PO1
4	Classify the transducer	L1	CO5	PO1
5	What are active and passive transducers? Give examples.	L1	CO5	PO1
6	Give the operating principle of a resistive transducer and give examples	L1	CO5	PO1
7	What is piezoelectric transducer?	L1	CO5	PO1
8	What is thermocouple?	L1	CO5	PO1
9	What is strain gauge? List its types.	L1	CO5	PO1
10	What is resistance thermometer?	L1	CO5	PO1
	Part – B (Long Answer Questions)			
11	a) Explain the construction and working of LVDT with a neat sketch b) Explain the construction and working of piezo-electric transducers	L1 L1	CO5 CO5	PO1 PO1
12	a) Explain the construction and working of thermistors b) Describe the different criteria for selection of transducers for a particular application.	L1 L2	CO5 CO5	PO1 PO1, PO2
13	a) Define and Classify the transducers b) Advantages and Applications of Transducers	L1 L1	CO5 CO5	PO1 PO1
14	a) Explain the various types of temperature transducers b) Explain the construction and working of thermocouple	L1 L1	CO5 CO5	PO1 PO1
15	a) What are the applications of LVDT? b) Write the difference between thermocouples and thermistor?	L1 L1	CO5 CO5	PO1 PO1
16	a) Explain working principle of CRO b) Write short notes on photovoltaic and photo conductive transducer	L1 L1	CO5 CO5	PO1 PO1

Prepared By: CH PRASANNA
Assisstant Professor (Dept. of EEE)