Total No	. of Questions : 4] SEAT No. :
P5342	[Total No. of Pages : 1
	[6187]-523A
T.E. (Robotics & Automation Engineering) (Insem)	
SENSORSTECHNOLOGY	
(2019 Pattern) (Semester - I) (311504 (A))	
Time: 1	Hour] [Max. Marks: 30
Instruction	ons to the candidates:
1)	All questions are compulsory i.e. Solve Q.1 or Q.2, Q.3 or Q.4.
2)	Assume suitable data, if necessary.
3)	Use of electronic pocket calculator is allowed.
4)	Neat diagrams must be drawn wherever necessary.
<b>Q1</b> ) a)	What is DAQ (Data Acquisition System)? Explain with the block diagram.
2-) (1)	[8]
h)	Explain Active and Passive transducer with a suitable examples. [7]
0)	Explain retive and rassive transacted with a surtable examples.
	OR ?
<b>Q2</b> ) a)	What is Signal Conditioning Circuit? Explain different types of Signal
	Conditioning Circuit. [8]
b)	Explain basic principle of Transducer with suitable block diagram. Write
	different characteristics of Transducers. [7]
<b>Q3</b> ) a)	Explain basic principle of MEMS microphone. Write a different
	applications of MEMS. [8]
b)	Write short note on the following with a suitable examples. [7]
,	i) Transduction methods
	ii) Transducer and Inverse Transducer
	ii) IIIiisaacci alia liivoise IIalisaacci

OR

Q4) a) Explain Calorimetric sensor with suitable diagram. Explain how calorimetric sensor is used to detect the glucose in solvent. [8]
b) Explain the working principle of pellistor. Write several applications of pellistor. [7]

खिल छाछा