

Roll No.:

SGT UNIVERSITY
END TERM THEORY EXAMINATION JULY-2022

Faculty/College of Study:	Engineering & Technology	Year/Semester:	6th- Semester
Program:	B.Tech. (CSE) Gen./Apple/IBM/MLAI	Duration:	03:00 Hrs
Course/Subject:	Sensor And Architecture Interfacing	Maximum Marks:	60
Course/Subject Code:	13020621	Batch:	2019

Instructions: -

1. Write Your Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. All Questions are compulsory. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

SECTION-A
(Very Short Answer Type Questions)

Note: All Questions are compulsory: -

[12X1=12 Marks]

S. No.	Question	Marks Allotted
1	Define Sensors?	1
2	What is a strain Gauge?	1
3	What is a pressure sensor?	1
4	Define Magnetic sensor?	1
5	Define photo resistive cell?	1
6	What is electro chemical cell?	1
7	Define vibration sensor?	1
8	What is opto isolator?	1
9	Define LED?	1
10	Define ultrasonic sensors?	1
11	List Three types of calibration techniques?	1
12	Define acceleration sensor?	1

SECTION-B
(Short Answer Type Questions)

Note: All Questions are compulsory: -

[4X2=8 Marks]

S. No.	Question	Marks Allotted
13	State the difference between accuracy and precision of a measurement?	2
14	What is hall effect?	2
15	List any four piezo electric material?	2
16	State the relay principle?	2

SECTION-C
(Descriptive Answer Type Questions)

Note: All Questions are compulsory: -

[4X4=16 Marks]

S. No.	Question	Marks Allotted
17	Differentiate between LVDT &RVDT?	4
18	Explain the concept of dynamic Microphone?	4
19	Explain Smart sensors?	4
20	How the interfacing of Led Done?	4

SECTION-D
(Long Answer Type Questions)

Note: All Questions are compulsory: -

[4X6=24 Marks]

S. No.	Question	Marks Allotted
21	Discuss in detail various types of errors and how these errors can be minimised?	6
22	Write the principle of capacitive sensors and give its applications?	6
23	Write technical notes on Fibre optic sensors?	6
24	Explain the concept of seven segment display?	6