Roll No.	
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3351

B. Tech. 6th Semester (EE) Examination – May, 2023

ELECTRONICS DESIGN LABORATORY

Paper: LC-EE-310-G

Time: Three hours]

[Maximum Marks: 50

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

- Note: Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.
- **1.** (a) Explain the term noise in electronic systems.
 - (b) List various electronic instruments.
 - (c) Define sensor conditioning.
 - (d) Discuss applications of CRO.

 $2.5 \times 4 = 10$

SECTION - A

- (a) Distinguish between direct and indirect method of measurement. Support your answer giving an example.
 - (b) Discuss the Signal conditioning circuit in short. 5

3	. Explain the elements of Generalized Measuremer	ıt	
	System. 1	0	
SECTION - B			
4.	Explain the interfacing of analog and digital systems	in	
	detail. 1	0	
5.	Write a note on analog system design.	0	
SECTION - C			
6.	Explain interfacing of LCD with 8051 microcontroller.	10	
7.	Write short notes on :		
	(a) FPGAs	5	
	(b) CPLDs	5	
SECTION - D			
8.	Explain properties of ideal operational amplifier.	10	
9	Describe the specifications of DACs with examples.	10	