

With a neat figure, explain the principle of sine bar. b.

6 a. What do you mean by best wire size and derive for the same.

b. Explain with sketches the measurement of effective diameter by two wire method and three 12 wire methods.

8

P17ME43

UNIT - IV

7 a.	What is Transducer? Classify transducers with examples.	8
b.	What are the advantages of electrical transducers?	6
c.	Explain with a circuit simple current sensitive circuit.	6
8 a.	Explain with a neat sketch telemetry transmitting and receiving system.	8
b.	Explain with a neat sketch construction and working of Cathode Ray Oscilloscope.	8
c.	Write a note on X-Y plotters.	4
	UNIT - V	
9 a.	Write a note on Wheatstone bridge circuit with the circuit diagram.	6
b.	Explain with a neat sketch, construction and working of Hydraulic Dynamometer.	8
c.	Explain with a neat sketch, construction and working of Bridgeman gauge.	6
10 a.	Write a note on;	
	i) Seebeck effect	6
	ii) Peltier effect	0
	iii) Thomson effect	
b.	What is Thermo couple? Explain the laws of thermo couple.	8
c.	Explain with a neat sketch, construction and working of McLeod gauge.	6

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