

(ii) Electrical resistance strain gauge Using wheat stone bridge.

(i) Platinum resistance temperature sensor

b. Explain with suitable sketches : (i) Weighted resistor DAC 10 (ii) Successive approximation ADC.

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UNIT - IV

7 a.	In Intel 8085 microprocessor, How I/O devices are addressed. Explain.	10
b.	With a neat sketch Explain the functional organization of Intel 8085 μ p.	10
8 a.	What are the different addressing modes used in Intel 8085? Explain them giving one example for each.	10
b.	Draw the timing diagram for memory read cycle.	5
c.	Give the classification of Intel 8085 microprocessor Instruction set.	5
UNIT - V		
9 a.	Convert the following as specified :	
	(i) (7834.291) ₁₀ to Hexadecimal	6
	(ii) $(7B9C.BD)_{10}$ to Octal	0
	(iii) $(10110010.10101)_2$ to Decimal	
b.	With truth table, explain OR, NAND, NOR an EXCLUSIVE –OR gates.	4
c.	Explain with example for each has - ve integers are represented in the memory.	10
10 a.	It is desired to represent floating point number in an 8 bit per word memory with an	
	accuracy of atleast five decimal digit and average of $10^{\pm 38}$. Show by sketching the layout	10
	how the memory would be organized.	
b.	Assuming 5 bit binary number with the left most bit being sign bit perform the following	
	subtraction using both 1's-compliment method as 2's-Compliment method :	
	(i) 00101-00100	10
	(ii) 01011-01101	
	(iii) 00101-11010	

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