Q.P. Code: 10018

(3	Hours)	ı T	ntal	Marl	75		60
(J	TIOUIS	<i>)</i>	ULAI	IVLALE	72	٠	vv

IN	ote: 1	Attempt an questions.					
	2) Figrue to the right indicates Full mark.					
	3) Use of Non-programmable calculator is allowed.					
1.	Attem	pt any two-					
	a)	What are temperature transducers? Describe any one of them.	6				
	b)	Give a brief account of a common anode seven segment display.	6				
	c)	What is a LVDT? Describe the construction and the working principal.	6				
2.	Attempt any two-						
	a)	Draw the block diagram of a single trace CRO. Explain the function of the time base generator.	6				
	b)	Describe the digital to analog conversion using weighted resistor.	6				
	c)	Write a note on transistorised voltmeter.	6				
3.		Attempt any two-					
	a)	With the help of block diagram explain working of instrumentation amplifier as light intensity meter.	6				
	b)	Draw neat circuit diagram of negative clipper with help of waveforms explain its working.	6				
	c)	What is band pass filter? Draw frequency response of a band pass filter, define Q factor calculate centre frequency if f_H =2500Hz. and f_L =1800Hz.	6				
4.		pt any two-					
	-	With help of neat diagram explain working of boost regulator using Max 631.	6				
	b)	Draw block diagram of fixed output voltage regulator with short circuit protection. Explain how the circuit works.	6				
	c)	Design a negative voltage regulator using LM 337 for input voltage is equal to -20 volts and Vref = -1.24 volts. Draw circuit diagram for design values.	6				
5.	Attempt any four -						
	a)	What is a load cell?	3				
	b)		3				
	,	What is a sweep generator.	3				
	d)	Draw the circuit diagram and frequency response of wide band pass filter.	3				
	e)	What are characteristics of linear IC voltage regulator.	3				
	£)	What is role of diodes in positive adjustable voltage regulator using I M 317	1				