

2018 VI 13	1430	ı	Seat No. :		
Time : 2 Hours	INDUST	RIAL ELECTROI	NICS AND I	NSTRUMEN	NOITATION
		Subject Code V 3 3 4			
Total No. of Questi	ons : 5 (P	Printed Pages : 2) M	aximum M	arks : 50
INSTRUCTIONS	2) Write the3) All quests4) Figure to	each question on a no. of question ar ions are compuls the right indicate diagram whereve	nd sub. questi ory . full marks.	on clearly .	
voltage is	entage change	in output voltage	•	_	
ii) Anotherna B) Answerthe fo		ent Magnet Moving	Coil (PMMC)	movement is	s (3×2=6)
i) Draw the l power sup ii) With the h	olock diagram o oply in it.	of CRO and explai gram, explain work n traic.			d
C) Answer the fo	_	neasurement using	g CRO.		(2×1=2)
 A) Define the folion i) Motor. ii) Electronic 	•				(1×2=2)
•	function of pin I	No. 2, 5, and 7 in 7			(3×2=6)
C) Answer the fo	_	es of electronic tim	ners over med	hanical time	(2×1=2) ers.



3.	A)	Fill in the blanks :	(1×2=2)
٠.	,	i) Frequency range of AF signal generator is	(
		ii) An electric instrument that can be used to measure ac current without connecting it in the circuit is called	ıt
	B)	Answer the following:	(3×1=3)
		i) With a neat diagram, explain the working of capacitive transducer.	
	C)	Answer the following:	(5×1=5)
		i) With the help of block diagram, explain working of ECG and state the of the same.	use
		OR	
		ii) With the help of block diagram, explain working of Metal detector and state the use of the same.	I
4.	A)	Answer the following in one word/sentence:	(1×2=2)
	•	i) State the use of +ve voltage regulator IC LM7815.	
		ii) What technique is used to extend the range of voltmeter?	
	B)	Answer the following:	(3×1=3)
		i) With the help of diagram, explain the working of piezo electric transdu	icer.
	C)	Answer the following:	(5×1=5)
		 i) With the help of neat labeled diagram, explain the construction of motor. 	DC
		OR	
		ii) With the help of neat labeled diagram, explain the working of two p starter.	oint
5.	An	swer the following:	2×5=10)
	i)	Draw the construction diagram of photo transistor and state any two applications of it.	
	ii)	With the help of neat dig. explain Hall effect.	
	iii)	State one point of difference between oscillator and signal generator.	
	iv)	With the help of diagram, explain range extension of an ammeter.	
	v)	With the help of block diagram, explain working of converter.	
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