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Code No: 126AH

B.Tech III Year II Semester Examinations, May - 2016 ELECTRICAL AND ELECTRONICS INSTRUMENTATION

(Electrical and Electronics Engineering)

Time: 3 hours		Max. Marks: 75				
Note: This question paper contains two parts A Part A is compulsory which carries 25 consists of 5 Units. Answer any one full 10 marks and may have a, b, c as sub que	marks. Answer all question from each					
PART - A What are the requirements of multiplier b) What are the Errors in moving iron Instr c) What is A.C potentiometer? Give the ap d) Comment for the effect of power factor	ruments. oplications of A.C po	of potential transformers.				
b) Define the phantom loading (b) Why it is necessary to make the potential (c) What are the different methods for measure (d) What are the different sources of errors (d)	al coil circuit purely surement of medium					
i). Classify the Transducers.	K9	K [2]				
PART - B (50 Marks)						
2.a) Derive the equation for deflection of a linearize of sca						
3.a) With neat block diagram, Explain the atb) Discuss the sensitivity of voltmeters in one		ectrometer in detailed. [6+4]				
4. Draw the equivalent circuit and phase expressions for ratio and phase angle of		rent transformer. Derive he [10]				
5.a) Why a potentiometer does not load determined?		e whose voltage is being				
b) A Potentiometer consisting of a resista series connected slide wire of 10 ohr working of current of the potentiometer can read accurately up to 1/5 of its spanin volts.	m which is divided or is 15 mA and eac	1 into 100 divisions. If the ch division of the slide wire				

	b) How 7.a) Der b) Exp 8. Obta with 9.a) Exp b) A I galv galv inpuresis	at is the lag adjustry C.T and P.T can ive the torque equalain why errors are ain the equations of the necessary phasor lain the loss of changely sensitive granometer is used anometer is negligit voltage applied stance, which can be a considered and the considered are the considered are the considered and the considered are the consid	be used to externation of an Electration of an E	onal the range of e OR odynameter type power factor is lo in the property of the bridge has of the bridge has is 20V. Calcula	of wattmeter. ow. nductance and car esistance. rent as low as a detector. The as a resistance of	[5+5] [6+4] pacitance bridge [10] 0.1 nA. This resistance of 1K ohm. The	
*** *** *** *** *** *** *** *** *** **	10.a) Exp b) Give	lain the working pethe applications of	of thermistors.	X	s guage factor.	[6+4]	
	11. Deri	ive the expression ches.		OR lection of an elec	ctron beam in a	CRT with neat [10]	
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