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AG-281-2018

FACULTY OF SCIENCE

M.Sc. (Fourth Semester) EXAMINATION NOVEMBER/DECEMBER, 2018

(CBCS Pattern)

PHYSICS

Paper PH-25B

(Electronic Instrumentation)

(Tue	esda	y, 4-12-2018)	Time: 2.00 p.m. to 5.00 p.m.		
Time	e—3	Hours CARSTERS	Maximum Marks—75		
N.B.	:	(i) All questions are compulsory.			
		(ii) Figures to the right indicate full	narks.		
1.	(a)	Explain in detail generalized measurer	nent system.	7	
	(b)	Describe important characteristics of in	struments.	8	
		Or Section 1	2.5°		
	(c)	Define error. Explain types of errors i	n instruments.	7	
	(d)	Explain in detail different types of mo	easurements.	8	
2. 3	(a)	Draw and explain resistive and induc	ductive transducers. 7		
01/01/01	(b)	diagrams explain temperature transc		ers. 8	
46	(0)	Or Control of the Con			
A CONTRACTOR	548	Draw and explain pressure and displ	acement transducers.	7	
	(c)	a prolain in detail optical to	ansducers.	8	
	(d)	With the help of well labelled diagrams describe auto			
3.	(a)				
	577	auto-ranging. Explain in detail automatic pola	arity indication in	electric	
	(b)	conductivity.		P.T.	

	 (d) Give two examples of us (a) Draw block diagram of I (b) Describe working of lock 	(b) Explain application of control.(c) With a suitable examusing PC.		WT (c) Draw block diagram of s	
Or Describe in detail the use of LVDT for thickness measurement. Praw and explain X-Y recorder and strip chart recorder.	Give two examples of use of PC in instrumentation and explain. Draw block diagram of DFM. Explain function of each block. Describe working of lock in amplifier using its labelled diagram.	Explain application of PC for temperature measurement and control. Or With a suitable example, explain displacement measurement using PC.	digital storage oscilloscope. Explain, what is pH? What is automation? Explain the need of automation. What is PC instrumentation? Explain, how PC is used in instrumentation?	Or Draw block diagram of storage oscilloscope and describe working of	