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Total Number of Pages : 02 210 210 210 210 210 210 210 210		B.Tech. PET4I103	210
210	4 th Semester Regular / Back Examination 2017-18 ELECTRICAL AND ELECTRONICS MEASUREMENT BRANCH: ECE, ETC Time: 3 Hours Max Marks: 100 Q.CODE: C1013 Answer Part-A which is compulsory and any four from Part-B. The figures in the right hand margin indicate marks. Answer all parts of a question at a place.		210
	Part – A (Answer all the questions)		
Q1	Answer the following questions :	(2 x 10)	
a)	figures		
210	a. 4 210 b. 3 210 c. 2 210 d.1 210 210		21
b)	A 0-10A ammeter has a guaranted accuracy of 1% of full scale deflection. The limiting error while reading 2.5 A is:		
	a. 1% b. 4% c. 2% d. none of the above		
c)	1,7,0,1		
	galvanometer of 1000Ω resistance. a. 4 b. 6 c. 5 d. 4.5		
₂₁₀ d)	In a 3-phase power measurement by using 2-wattmeter method, both the		21
	meters give equal readings, find the power factor of the load. a. 0.7 b. 0 c. 0.5 d. 1		
e)			
	a. accurate and precise b. accurate and direct reading		
f)	c. Precise d. accurate A Wheatstone bridge can not be used for precision measurements, because		
''	errors are introduced into on account of,		
210	a. Resistance of connecting leads b. Thermo electric emfs ¹⁰		21
g)	c. Contact resistances d. All the above A current transformer has a rating of 100/5A. Its magnetizing and loss		
9/	component of the exciting current are 1A and 0.6A respectively and secondary winding burden is purely resistive, its transformation ratio at rated current is		
	a. 20.12 b. 20.2 c. 200.2 d. None of the above		
₂₁₀ h)	Electronic voltmeters which use rectifiers employ negative feedback. This is done		21
	a. To increase the overall gain b. To improve stability		
	c. To overcome non-linearity of diodes d. None of the above		
i)	Post acceleration is needed in a CRO, if the frequency of the signal is a. <1Mhz b. >1Mhz c.>10Mhz d.>10kHz		
j)	Hay's bridge is used to measure		
•,	a. Resistance b. Inductance c. Capacitance d. Frequency		