[Total No. of Questions: 8]

## S.E. (COMP) (Semester - IV) Examination, May/June 2011 ELECTRONIC MEASUREMENTS

Dur	ation	n: 3 Hours Total Marks:	100
Instructions: 1) Answer total five questions and one question is compulsory from each			100
		2) Assume suitable data if required and mention it clearly.	
		MODULE - I	
Q1)	a)	in the systems.	[8]
	b)	Explain the three principles followed by the metric system of units.	[6]
-	c)	What a IEEE standards?	[3]
	d)	Write a short note on International Standards	[3]
Q2)	a)	Explain the principle of operation of the following DVM's.	[9]
		i) Successive approximation DVM's.	[-]
		ii) Ramp type DVM's.	
	b)	iii) Dual slope DVM's.	
	c)	research of the martineter in actain.	[8]
	c)		[3]
		MODULE - II	
Q3)	a)	Explain the horizontal deflection system of a CRO.	[8]
	b)	With a neat diagram distinguish between dual beam and dual trace CRO.	[8]
	c)	Explain the working of a current probe.	[4]
Q4)	a)	Explain function generator with a diagram.	Qï
	b)	Explain pi and piston-type attenuator	[8]
	c)	Compare the merits and demerits of the following methods of frequency synthesizes	[6]
			6]
		1) Direct frequency synthesizer.	_ ,
		ii) Indirect frequency synthesizer.	
		MODULE - III	
Q5)	a)	Draw block diagram of a general purpose spectrum analyzer and explain i operation.	
	<b>b</b> )	Explain the Harmonic distortion analyzon with the Latence of the control of the C	8] 81
	c)	Explain any two applications of work analyses	8] 4]
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b) Explain DAS system with the help of a block diagram.

c) Write a note on spatial encoders.

[6]

[8]

[6]