	<b>Total</b>	No.	of	Questions:		81
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SEAT No.:	
[Total	No. of Pages : 2

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## [4959] - 1107 R.F. (Electronics)

		B.E. (Electronics)						
		Advanced Measurement Systems						
	(Semester - I) (2012 Pattern) (Elective - I)							
Time	Time: 2½ Hours] [Max. Marks.							
Insti	uctio	ons to the candidates:-						
	1) 2) 3)	Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.  Figures to right indicate full marks.  Assume suitable data if necessary.						
Q1)	a)	State and explain electrical validation and debug with MSO Serious Oscilloscope.	ies [ <b>8</b> ]					
	b)	Draw & Explain the architecture and operation of Spectrum Analyzer.	[6]					
	c)	What are the signal integrity testing challenges and possible solutions?	[6]					
		OR						
Q2)	a)	Draw the architecture and explain in detail logic analyzer. Sta applications.	ate [ <b>6</b> ]					
	b)	What are the different interfacing techniques? Explain interfacing of graph LCD display.	hic [8]					
	c)	Explain embedded communication using CAN	[6]					
Q3)	a)	Draw & Explain direct reading barrater bridges.	[8]					
	b)	Explain single line cavity coupling system for wavelength measurement.  OR	[8]					
<b>Q4</b> )	a)	Explain measurement of attenuation and free space attenuation.	[8]					
	b)	Explain detection & measurement of microwave power.	[8]					
Q5)	a) b)		[8] [8]					

OR

<i>Q6)</i>	a)	Explain Lab View based Data acquisition system design.	[8]	
	b)	Explain fundamental test set up for advanced radar systems.	[8]	
Q7)	a)	Explain GSM Modem for AT Commands.	[6]	
	b)	Explain Analog Multiplexer in detail.	[6]	
	c)	Explain automation in digital instruments.	[6]	
		OR		
Q8)	Writ	Write short note on any three		
	a)	Microwave Enclosures.		
	b)	Sample and Hold.		
	c)	Measurement of VSWR,		
	d)	Universal Counter.		

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