Reg. No. :										
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Question Paper Code: 31543

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2016

Fifth Semester

Electronics and Communication Engineering

01UEC503 - ELECTRONIC MEASUREMENT AND INSTRUMENTATION

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

- 1. State the advantages of electronic measurements.
- 2. Mention the advantages and disadvantages of Anderson bridge.
- 3. Differentiate the digital storage oscilloscope with the analog oscilloscope.
- 4. Define deflection sensitivity of CRO.
- 5. What is a wave analyzer?
- 6. Give the importance of L, C and R measurements.
- 7. List the different types of digital voltmeter.
- 8. Define virtual instruments.
- 9. What is the importance of sample and hold circuit in digital data acquisition system?
- 10. How do you measure the power loss in a fiber optic measurement?

PART - B (5 x 16 = 80 Marks)

and explain the different types of standards	of measurements. (8)
neat diagram explain the construction, wo	rking and torque equation of (8)
Or	
Maxwell's bridge is used for the measurer lance equation.	ment of unknown inductance. (16)
etail about the cathode ray oscilloscope.	(16)
Or	
etail about the Q meter.	(16)
e block diagram of an indirect type freque	ency synthesizer and explain. (8)
e the basic circuit of spectrum analyzer. Ho ed wave is displayed?	ow the spectrum of frequency (8)
Or	
etail about the harmonic distortion analyzer	and vector network analyzer. (16)
working of digital multimeter.	(16)
Or	
detail about the computer controlled test sys	stems with suitable examples. (16)
elements of a digital data acquisition system	. (16)
Or	
the IEEE 488 bus with a neat diagram.	(8)
measure the system loss using fiber optic teo	chniques? (8)