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24027

B. Tech 3rd Semester (EE) Examination – December, 2017 ELECTRICAL MEASUREMENTS & MEASURING INSTRUMENTS

Paper: EE-209-F

Time: Three Hours] [Maximum Marks: 100]

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper.

No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all. Question No. 1 is compulsory. Attempt any one question from each Section. All questions carry equal marks.

1. (a) Define true value with suitable example.

 $4 \times 5 = 20$

(b) What are the absolute and secondary instruments?

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	(c)	What are the disadvantage of power factor	or 5.	Explain the electrostatic type instruments.
	(d)	meter? Why we need bridges? Explain it briefly.		SECTION - C
		SECTION - A	6.	Write short note on: 20 (a) Torque equation of Wattmeter.
2.	(a)	Explain the comparison between gravity an spring control. http://haryanapapers.com 1	ad O	(b) Compensation and creep in energy meter.
	(b)	What are the three forces in electromechanical	7.	Explain the frequency meter in details. 20
		indicating instruments? Explain them.	0	SECTION - D
3.	Wri	ite short note on :	8.	(a) Explain the loss charge method.
	(a)	Precision		(b) What are the limitations of Wheatstone bridge?
	(b)	Resolution		. 10
	(c)	Sensitivity	9.	Explain the circuit diagram and Phasor diagram of
		SECTION - B		Maxwell's inductance capacitance bridge. 20
4.	Exp	plain the construction, working principle and	d	· •
	torq	que equation of voltmeter.	0	•
402	7-260	00-(P-3)(Q-9)(17) (2)	2402	7-2600-(P-3)(Q-9)(17) (3)

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