DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE Semester Examination – Nov/Dec - 2018

Branch: Electrical Engg. Subject with Subject Code:- Measurement & Instrumentation (BTEEC304) Date:- 07-12-2018		Sem.:-III Marks:60 Time:- 3Hr.
Instr	uctions to the Students	
	1. Each question carries 12 marks.	
	2. Attempt any five questions of the following.3. Illustrate your answers with neat sketches, diagram etc., wherever necessary4. If some part or parameter is noticed to be missing, you may appropriately as mention it clearly	
Q1.	a)Describe Direct & Indirect methods of Measurement	6M
	b) Define the Terms: 1. Repeatability 2. Reproducibility 3. Accuracy	6M
Q2.	a)Describe the construction, working of PMMC instrument	6M
	b) Explain Instrument Transformer - CT & PT	6M
Q3.	a) Explain working & application Q-Meter	6M
	b) Classify & explain different methods of measuring Low, Medium & High resistances	6M
Q4.	a) Coil of 300 MI Voltmeter has resistance 500 ohm & inductance 0.8 Henry. The Instrument read correctly at 50 Hz ac supply and takes 100mA at Full Scale deflection. Analyze the percentage error in	
	the instrument reading when it is connected to 200v DC Supply.	6M
	b) Draw & Explain the Block diagram of Digital Voltmeter	6M
Q5.	a) With the help of neat diagram explain the operation of LVDT	6M
	b) Explain Thermocouple & RTD with its applications	6M
Q6 .	a) Explain different types of Recorders	6M
	 b) Two wattmeter connected to measure the input to a balanced three phase circ 500W respectively. Find the Power Factor of the circuit. i) When the both readings are positive ii) When the latter readings is obtained after reversing the connections to the circuit. 	6M
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30,00	OR c) Draw & Explain the block diagram of Digital Storage Oscilloscope (DSO)	6M
A Co	Digital Storage Oscilloscope (DSO)	OIVI

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