	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,	LONERE		
	Supplementary Examination –Summer 2024			
	Course: B. Tech. Branch: Electrical Engineering & Allied Semester: III			
	Subject Code & Name: BTEEC303 Electrical & Electronics Measuren	nents		
	Max Marks: 60 Date: 04/07/2024 Duration	: 3 Hr.		
	 Instructions to the Students: All the questions are compulsory. The level of question/expected answer as per OBE or the Course Outcombic which the question is based is mentioned in () in front of the question. Use of non-programmable scientific calculators is allowed. Assume suitable data wherever necessary and mention it clearly. 			
		(Level/CO)	Marks	
Q. 1	Solve Any Two of the following.		12	
A)	Define the terms i) Resolution ii) Precision iii) Accuracy	CO1	6	
B)	Draw and explain block diagram of generalised instrumentation system.	CO1	6	
C)	What is Error? Explain different types of errors?	CO1	6	
Q.2	Solve Any Two of the following.		12	
A)	Derive the equation for the power measurement in AC circuit.	CO2	6	
B)	Describe the construction and working of PMMC instrument.	CO2	6	
C)	Draw and explain MI instrument and derive the equation for damping torque.	CO2	6	
	81			
Q. 3	Solve Any Two of the following.		12	
A)	Classify and explain different methods of measuring Low, Medium, and High resistance.	CO3	6	
B)	Which bridge is preferred for measurement of unknown inductance having quality factor less than 10 explain in detail?	CO3	6	
C)	Which technique is used to find the exact fault location of cables explain in detail?	CO3	6	
Q.4	Solve Any Two of the following.		12	
A)	Draw and explain block diagram of Cathode Ray Oscilloscope.	CO4	6	
B)	Explain the operation of Ramp type DVM with the help of block diagram.	CO4	6	
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C)	Draw the block diagram of Digital Instrumentation System and compare analog and digital instrument (any 4 points)	CO4	6
Q. 5	Solve Any Two of the following.		12
· ·	Explain the construction and working of Linear Variable Differential Transformer (LVDT)?	CO5	6
B)	Explain Strip Chart Recorder?	CO5	6
C)	State temperature measuring instruments explain any one in detail.	CO5	6
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