Paper / Subject Code: 41225 / Industrial Electronics

S.E Sem IV Mechanical (CScheme, R-2019) May 2023

		M. K-2019) W	ay 202
	puration: 3hrs		
	(1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining fix (3) All questions carry equal marks. (4) Assume suitable data, if required and state it clearly	[Max Marks:80] ve.	
	Attempt any FOUR		
a b c	Explain equivalent circuit of an OP-AMP.	& IGBT	[20]
d e	List the features of MSP 430.		
à	a What is GTO? Explain switching characteristics of G	TO.	[10]
b	b Explain BLDC motor. State its advantages.		[10] [10]
a	a Draw and explain Astable mode of operation of IC 55	55	[10]
b	b Explain the different peripherals of MSP430 microco		[10] [10]
3	a Compare CMOS logic family with TTL logic family.	- F	[10]
ł	b Draw and explain single phase full wave fully contro		[10]
	of waveforms for R load.	, , , , , , , , , , , , , , , , , , , ,	[10]
	a Explain the application of piezo-electric actuator driv	ve.	[10]
	b Draw and explain the circuit diagram and waveforms	s of single-phase bridge	[10]
	inverter with R load.		
5	a Explain instrumentation amplifier. State its advantag	ges and disadvantages.	[10]
	b Draw and explain UJT triggering method of SCR.		[10]

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