paper / Subject Code: 41225 / Industrial Electronics

SE		(3 Hours	R-2019)	rr	otal Marks: 80]
19/12/2022			<i>.</i>		
19/12/20	stion No 1 is C	ompulsory.	the remaining fiv		
Atte	mpt any three c	egual marks	the remaining five	/e.	
N.B. (2) All (_{mpt} any three c questions carry ime suitable da	ta, if required an	d state it clearly		23
(3) Assi	ime suitable da	, , ,	nd state it clearly	•	
		1.	,	J.	,
1	FOUR		7		[20]
Attempt any I	between SCR	and DIAC			
Compare	between	and filter		3,1	37
nraw and	Explain low p	ass mer		. 80	35
			in its characterist	ics	
c What is	ate between m	icroprocessor ar	nd microcontrolle	er	
d Different	De Mor	can's theorems		<u>.</u>	
State and	prove De-Ivior	gan's theorems	·		
		. Y			
(in 18	o degree mode	of operation of	inverter		[10]
2 a. Explain 10	bitocture (of operation of	rocontroller		[10]
b. Explain the	e architecture c	of MSP 430 micr	Ocommoner ,		
now the c	ircuit diagram	of astable multi	vibrator and exp	lain its operation	on. [10]
3 a. Diawara	ı Evolain speci	fication paramet	er of digital logi	c family.	[10]
b. Define and	Explain op	~ ,		(5)	
	the sale			2,	[10]
Explain the	e working princ	ciple of single pl	nase bridge inver	ter circuit.	-
4 a. Dir	s speed contro	methods of ind	uction motor. Ex	cplain voltage	control
b. List variou	والمصافعة	agram		, (d.	[10]
method wi	th a suitable di	agram.		Vit.	
	.0.1				
what is a 5	55 timer? Writ	e its application	s and explain as	table multivibi	ator wim
5 a. What 25	airanit diagram	and waveforms	s	~ "	[10]
associated	Circuit diagram	A.L. mroom	omming and C n	rogramming a	lso write the
b. Write diffe	rence between	assembly progra	amming and C p	Daniel L	Cancor [10]
application	s of microcont	roller as Speed I	Measurement usi	ing Proximity	Schsor. [10]
-rr	Č.	v			
	100 Carton	Maton h) Com	vo Motor		[10]
6 a. Write a note	e on a) BLDC	Motor b) Serv	11 - 1	i-layar	[10]
b. Draw and e	explain the wor	king of multiple	exer and de-mult	ipiexer.	[10]
		(1)			