10/06/16

QP Code: 555701

			(3 Hours)	[Total Marks: 80			
N.B	3. :	(2) Atte (3) Figu	stion No. 1 is compulsory. mpt any three questions out of remaining que ares to the right indicate full marks. ume suitable data if necessary.	estions.			
1.	Solv	ve any fou	r ·_	erter circuit?	16		
1 :	(a)	Enlist four applications of SCR-diode circuit.					
	(b)		he basic principle of bridge configured conve	erter circuit?			
	(c)		he operation of voltage follower circuit.				
	(d)	Define an	d describe logic operation, power dissipation a circuits. brushless dc motor? Give its two application	and propagation delay			
	(e)	In digital	brushless dc motor? Give its two application	oc A			
	(0)	what is a	brusiness de motor: Give its two application	15.			
2	(a)	What is G	GTO? Explain its working. What are similariti	ies between GTO and	7		
		SCR?					
	(b)		describe power MOSFET on the basis of co		7		
	(-)		ion, applications, rating, input and output tha		_		
	(c)		e output voltage for full wave fully controlled gle for maximum output.	rectifier and find the)		
		ining ang	ne for maximum output.				
3.	(a)	Explain in	n detail the concept of R-L-E load in convert	ers.	7		
	(b)	_	peed control of ac motor and describe any one		7		
	(c)	How does	s driver circuit work? Illustrate with an examp	ple.	Ó		
1	(0)	Evaloia i	n datail first ander law pass native filter				
4.	(a) (b)	_	n detail first order low pass active filter. lifference between combinational and differe	ential circuits?	/ 7		
	(c)		speed torque characteristics of dc motor? Cl				
			sis of time duration.	, ,,,	,		
5.	(a)		the functional block diagram and archi	tecture of MSP430	7		
	(1-)	microcon	£-V		_		
	(b) (c)	()	asic digital gates using NOR and NAND univ rogram using MSP430 for external input and		1		
	(0)	A The api	ogram using 19151 750 for external input and	output devices.)		
6.	(a)	Select a r	motor for machine tools application and des	scribe with the speed	7		
	_	Yorque ch	naracteristics.		7		
	(10)		microprocessor and microcontroller.	6)		
1	S(c)	Explain n	ninimum six distinguishing features of MSP4	430 microcontroller.			

Course: S.E (All Branches)

QP Code 555701

Correction

Q4 (b) What is the difference between Combinational and Sequential Circuits marks (7) instead of What is the difference between Combinational and Differential Circuits marks (7)

Date and Time 10/06/2016 05:30 PM

More: - Cossection was sent for late,
many students had already lett.

— Be considered.

10/06/16

QP Code: 555701

			(3 Hours)	[Total Marks: 80			
N.B	3. :	(2) Atte (3) Figu	stion No. 1 is compulsory. mpt any three questions out of remaining que ares to the right indicate full marks. ume suitable data if necessary.	estions.			
1.	Solv	ve any fou	r ·_	erter circuit?	16		
1 :	(a)	Enlist four applications of SCR-diode circuit.					
	(b)		he basic principle of bridge configured conve	erter circuit?			
	(c)		he operation of voltage follower circuit.				
	(d)	Define an	d describe logic operation, power dissipation a circuits. brushless dc motor? Give its two application	and propagation delay			
	(e)	In digital	brushless dc motor? Give its two application	oc A			
	(0)	what is a	brusiness de motor: Give its two application	15.			
2	(a)	What is G	GTO? Explain its working. What are similariti	ies between GTO and	7		
		SCR?					
	(b)		describe power MOSFET on the basis of co		7		
	(-)		ion, applications, rating, input and output tha		_		
	(c)		e output voltage for full wave fully controlled gle for maximum output.	rectifier and find the)		
		ining ang	ne for maximum output.				
3.	(a)	Explain in	n detail the concept of R-L-E load in convert	ers.	7		
	(b)	_	peed control of ac motor and describe any one		7		
	(c)	How does	s driver circuit work? Illustrate with an examp	ple.	Ó		
1	(0)	Evaloia i	n datail first ander law pass native filter				
4.	(a) (b)	_	n detail first order low pass active filter. lifference between combinational and differe	ential circuits?	/ 7		
	(c)		speed torque characteristics of dc motor? Cl				
			sis of time duration.	, ,,,	,		
5.	(a)		the functional block diagram and archi	tecture of MSP430	7		
	(1-)	microcon	£-V		_		
	(b) (c)	()	asic digital gates using NOR and NAND univ rogram using MSP430 for external input and		1		
	(0)	A The api	ogram using 19151 750 for external input and	output devices.)		
6.	(a)	Select a r	motor for machine tools application and des	scribe with the speed	7		
		Yorque ch	naracteristics.		7		
	(10)		microprocessor and microcontroller.	6)		
1	S(c)	Explain n	ninimum six distinguishing features of MSP4	430 microcontroller.			