

V.P & R.P.T.P. SCIENCE, V.V.NAGAR Internal Exam B.Sc. (VIth SEM.) ELECTRONICS

	13/03/2019 10:00 am to 12:00 pm	SUB: U	S06CELE05 MARKS-50	
Q-1	Choose correct answer		[08]	
1.	Type A chopper consists of ch	nopping network.	. 176	
	(A) one	(C) four		
	(B) three	(D) None of above	R. P. Scie	
2.	Single phase bridge control circuit co	onsists of SCRs.	(2)	
	(A) 4	(C) 3	100	
	(B) 2	(D) None of above	LIBRAR	
3.	Freewheeling diode used in		1.	
	(A) Type A chopper	(C) Type B chopper	V. Naga	
	(B) Cycloconverter	(D) None of above		
4.	For the speed reversal of DC motor	is used.		
	(A) amplifier	(C) Type B chopper		
	(B) dual converter	(D) None of above		
5.	Power controlling done by			
	(A) phase control	(C) amplification		
	(B) rectification	(D) None of above		
6.	A large value of inductor in bridge circu	it results in		
	(A) discrete current	(C) continues current		
	(B) zero current	(D) None of above		
7.	Dual converter consists of			
	(A) inverter and oscillator	(C) inverter and rectifier		
	(B) rectifier and amplifier	(D) None of above		
8.	B2 and B6 is type of configuration.			
	(A) Bridge	(C) Half wave		
	(B) Full wave	(D) None of above		
Q-2	Short answer type question. (any five)		[10]	
1.	Why power controlling is needed?			
2.	Differentiate Type A and Type B cho	pper.		
3.	What is chopper?			
4.	State advantage and disadvantage o	f full wave bridge control circui	t.	
5.	What is snubber circuit? Briefly explain.			
6.	State function of dual converter.			
7.	List different section of PLC section.			
8.	Briefly explain phase control.			
Q.3	Explain different version of full wave		[08]	
0.3	·	OR	[00]	
Q.3	Explain functional mechanism and p	rinciple of dual converter with	[80]	

Q.4	Explain the principle of chopper operation with necessary circuit diagram	
	OR	
Q.4	Draw the circuit diagram of step up chopper and explain its working with necessary waveform.	[80]
Q.5	Describe functional mechanism of first quadrant type A chopper with diagram and waveform.	[08]
	OR	
Q.5	Explain functional mechanism of type B chopper with diagram and waveform.	[80]
Q.6	Discuss different terms and terminologies used in operation of PLC. OR	[08]
Q.6	What is PLC? Draw block diagram of PLC system and discuss function of all section of it.	[08]

3.

