VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE VALLABH VIDHYA NAGAR							
	T.Y.B.	Sc. SEM: IV	INTERNAL		DATE: 05 th Oct. 2013		
	SUB: ELECTRONICS				TIME: 3:30 pm to 5:00 pm		
		SUB CODE: US05CELE05			TOTAL MARKS		
	Q. 1 Choose the correct answer.					[06]	
		(1) SCR is type device.					
	(-)	(A) Uni directio		(C)	Multi directional		
		(B) Bi direction		(D)	None of above		
	(2)						
		(A) Rectificatio		(C)	Power controlling		
		(B) Amplificati	on	(D)	None of above	R. Science	
	(3)				131		
		(A) Amplifier		(C)	Power controlling	S LIDBARY	
		(B) Relaxation	oscillator	(D)	None of above	LIBRAR 18	
	(4)	V _{Bo} in SCR refer as				17 1 × 1	
		(A) Break dow		(C)	Break over voltage	* LUNaga	
		(B) Over voltag	ge	(D)	None of above		
	(5) Connection of SCR used for controlling very high voltage.						
		(A) Series		(C)	Parallel		
		(B) Bi direction	nal	(D)	None of above		
	(6)	Recommended method to TURN ON SCR is					
		(A) Triggering	by D.C. signal	(C)	Triggering by A.C. signa	al	
		(B) Both (A) &	(B)	(D)	None of above		
	Q.2 (1) (2) (3) (4) (5) (6)	 State function of gate in SCR. Define holding current i_H. Define reveres recovery current i_{RR}. Define string efficiency. State any three important applications of thyristor device. 					
	Q.3	Differentiate between semiconductor and thyristor device. Discuss principle of operation and characteristics of SCR. OR [06]				[06]	
	Q.3					[06]	
	Q.4	.4 Describe series operation of SCR giving necessary diagram. OR				[06]	
	Q.4					[06]	
	Q.5 With help of circuit diagram describe TURN OFF mechanism of SCR. OR					[06]	
	Q.5 Discuss characteristics and operation of UJT giving necessary diagram.					[06]	

- : All the best: -