	DR. BABASAHEB AMBEDKAR TE	CHNOLOGICAL UNIVERS	ITY, LONERE		
	Supplementary Examination – Summer 2022				
	Course: B. Tech. Bran	Branch : EE Semester :6			
	Subject Code & Name: BTEEC603 &	Power Electronics			
	Max Marks: 60 Date:	Duration: 3	B Hr.		
	<ol> <li>Instructions to the Students:         <ol> <li>All the questions are compulsory.</li> <li>The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.</li> <li>Use of non-programmable scientific calculators is allowed.</li> <li>Assume suitable data wherever necessary and mention it clearly.</li> </ol> </li> </ol>				
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Q. 1	Solve Any Two of the following.				
A)	Define (i) Latching Current (ii) Holding Over voltage	g current (iii) Forward Break		6	
<b>B</b> )	With the help of neat waveforms explai MOSFET	n V-I characteristics of		6	
<b>C</b> )	Discuss different triggering methods of	SCR		6	
Q.2	Solve Any Two of the following.				
A)	With the help of neat circuit diagram & single phase half wave controlled rectif		1	6	
<b>B</b> )	Explain difference between Semi conve	rter & Full converter		6	
C)	List out the advantages of Freewheeling	g diode		6	
Q. 3	Solve Any One of the following.				
A)	Draw a neat circuit diagram of three phelp of neat waveforms explain 180 deg		the	12	
<b>B</b> )	Draw a neat circuit diagram and expla & also derive its output voltage equation		or	12	
Q.4	Solve Any Two of the following.				
A)	What is step down chopper? Derive its it.	output voltage equation & pr	ove	6	
<b>B</b> )	Discuss different control strategies used	l in choppers		6	
C)	List out advantages & applications of c	hopper		6	
Q. 5	Solve Any One of the following.				

A)	Draw a neat circuit diagram of single phase Stepdown Cycloconverter		12
	& with neat waveforms explain its operation		
<b>B</b> )	Write a note on single phase dual converter		12
	*** End ***		

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