210	210	210	210	210	210	210	210
	Registr	ation No :					
	Total N	umber of Pages : ()1	i i		B.Tec	
210	210		EXIBLE AC TI. BRANCH : Tim Max Q.CC	ck Examination RANSMISSION EEE, ELECTRI Marks : 70 DDE : HB352 compulsory an	SYSTEM CAL	PEEE540	210
210	210			t hand ² margin			210
210	Q1 a) b) c) d) e) 210 f) g) h)	Answer the follow What are the advan Classify the various What is TCBR and Write two objectives State the similarities What is sub-synchro What is UPFC and What is a quadratur	tages of intercor types of FACTS TCVR? of shunt compe and dissimilarit onous resonance why is it called so booster transfe	controllers. ensation. ies between a SS ? 210 o? o? prmer (QBT)?	SC and TCSC.	(2 x 10) 210	210
	i) j)	State the importance State the advantage			ntrollers.		
	Q2 a) b)	Explain the perform What is a SVC? Dr				R. (5) (5)	
210	Q3 a) b)	210 Explain with the he increase with series Explain how GCSC	compensation.			can be (5)	210
	Q4 a) b)						
210	Q5 ²¹⁰ a) b)	Draw a schematic of Explain the basic of				210 (5) C. (5)	210
	Q6	What is Midpoint Voltage regulation for line segmentation and how it fulfills the (10) various objectives of shunt compensation?					
210	Q7 210	Describe the principmodes of operation		of a TCSC, clear	ly indicating the	different (10)	210
	Q8 a) b) c)	Write short answe Limits of loading ca Possible benefits of STATCOM	pability of transm			(5 x 2)	
210	210	210	210	210	210	210	210