E		Reg. No. :										
		Question Pape	er Cod	le:	550	15						
		M.E. DEGREE EXAN	MINAT	ION	I, AP	RIL	2019)				
		Elect	ive									
		Power Electroni	ics and	Driv	ves							
		15PPE515 - WIND ENERGY	CONV	ERS	SION	I SY	STE	MS				
		(Regulatio	on 2015)								
					kimu	num: 100 Marks						
		Answer ALL	Questi	ons								
		PART - A (5 x 20	0=100	Mai	rks)							
1.	(a)	Describe with neat sketch the working system with major components.	of win	d en	ergy	con	versi	on	CO1	- U		(20)
	(b)	Explain the different generation seconversion systems	chemes	of	È wi	ind	ener	gу	CO1	- U		(20)
2.	(a)	Briefly explain the horizontal axis type	wind to	urbi	ne.				CO2	- U		(20)
		Or										
	(b)	Design and describe the power control	techniq	ues	of w	rind t	urbir	ne	CO2	- U		(20)
3.	(a)	Give the steady state model od non machine.	salien	t pc	ole s	ynch	rono	us	CO3	-U		(20)
	(b)	Or Explain Generator model for Steady s analysis.	tate and	d Tr	ansie	ent s	tabili	ity	CO3	-U		(20)
4.	(a)	Explain with relevant waveforms the invariable speed synchronous generator v						ng	CO4	-An	a	(20)
	(b)	Draw the schematic diagram of Perma generator and briefly describe the mod		U		-	rono	us	CO4	-An	a	(20)
5	(2)	Explainlow-voltage ride through a	pontrol	etr	atem		for	hir	CO5	_ I I		(20)

(a) Explainlow-voltage ride through control strategy of grid CO5-U 5. (20) connected variable speed wind turbine generator system

Or

(b) Discuss the current practices and industry trends wind CO5-U (20) interconnection impact on dynamic performance of the power system..