Tot	al N	o. of Questions : 8]	[Total No. of Printed Pag	es: 2
			Roll No	•••••
		EX-702	(A)-CBGS	
		B.Tech., V	II Semester	
		Examination,	December 2020	
	Ch	oice Based Gra	ding System (CBGS	3)
P	owe	er Electronics App	olication to Power Syst	tem
			hree Hours	
			Maximum Marks	s : 70
No	te: i	i) Attempt any five que	estions.	
	i	ii) All questions carry e	qual marks.	
1.	a)	Explain merits and der	merits of HVDC transmission	n. 7
	b)	Explain interconnection	on of renewable energy sour	rce to
		utility grid.		7
2.	a)	Explain static directio	nal over current relay.	7
	b)	Write note on solar po	wer generation.	7
_		5		
3.	a)	Draw diagrams of ser explain in detail.	ries and shunt compensation	n and
	b)	Give classification of	FACTs controllers.	7
	0)			,
4.	a)	Explain TSC with nece	essary diagrams.	7
	b)	•	se converter topology for H	VDC
		transmission.		7
5.	a)	Give comparison of ac	ctive and passive filters.	7
J.	b)	_	gurations of active filters.	, 7
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6.	a)	What are Active Power Controllers.	7
	b)	Describe Energy Storage Systems in detail.	7
7.	a)	Write short notes on AC voltage regulators.	7
	b)	What are the Control strategies to improve system stabi	ility. 7
8.	a)	Explain Unified Power Flow Controller (UPFC).	7
	b)	Write short notes on Steady state and dynamic proble in AC systems.	ems 7
