CBCS Scheme

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USN							16EPS424

Fourth Semester M.Tech. Degree Examination, June/July 2018

		Integration of Renewable Energy			
Tin	me:	3 hrs.	Max. Marks: 80		
	Ì	Note: Answer any FIVE full questions, choosing one full question from eac	h module.		
1	a.	Module-1 Explain the DC architecture for design of a 2-MVA PV station	(00 M l .)		
	b.	Explain the smart grid split DC bus UPS-PV DG system.	(08 Marks) (08 Marks)		
		OR			
2	a.	Explain the AC architecture for design of a 2MVA PV station.	(08 Marks)		
	b.	Explain the procedure for step-by-step control flow.	(08 Marks)		
			, (q)		
_		Module-2			
3	a.	Illustrate configurations for two applications of distributed energy station.	(08 Marks)		
	b.	Explain the procedure for proposed load sharing control algorithm.	(08 Marks)		
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			(D)3.		
4		Classify the types of inverter topology.	(16 Marks)		
		Madala 2			
5			11		
		Design the robust servo mechanism voltage controller with the neip of block			
			(16 Marks)		
		OR ON			
6	a.	Construct the basic mathematical model of 3\phi four wire inverter.	(08 Marks)		
	b.		(08 Marks)		
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		Module-4			
7		·			
	a.				
	b.	μ-analysis	(16 Marks)		
0		OR			
8			(08 Marks)		
	D.	Explain the process of power regulator in conventional integral control.	(08 Marks)		
		Ca State of the control of the contr			
0		Explain reduct stability analysis using standard lain 1			
7		Explain robust stability analysis using structured singular value.	(16 Marks)		
		A V			
10			(16 Mayla)		
100 M		and control strategy.	(16 Marks)		
	1 2 3 4	1 a. b. 2 a. b. 3 a. b. 4 5 6 a. b. 7 a. b. 8 a. b.	Time: 3 hrs. Note: Answer any FIVE full questions, choosing one full question from each stability analysis using structured singular value. Note: Answer any FIVE full questions, choosing one full question from each stability analysis using structured singular value. Note: Answer any FIVE full questions, choosing one full question from each stability analysis using structured singular value. Notable 1 Answer any FIVE full questions, choosing one full question from each stability analysis using structured singular value. Notable 1 Answer any FIVE full questions, choosing one full question from each stability analysis using structured singular value.		