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SUBJECT CODE NO: E-8073
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (Electrical Power Systems) Examination Nov/Dec 2017
Flexible AC Transmission
(Revised)

[Time: Three Hours] **[Max.Marks:80]**

Please check whether you have got the right question paper.

N.B i) Solve any two questions from each section
ii) Assume suitable Data if required.

Section A

Q.1	a)	What is the basic principle of shunt compensator in AC Transmission lines?	10
	b)	State & Explain possible benefits of FACTS?	10
Q.2	a)	What are the power flow & dynamic stability considerations of a transmission interconnection?	10
	b)	Explain importance of controllable parameters.	10
Q.3	Write short Notes on any Four.		20
	a)	Various FACTS controllers	
	b)	Voltage Regulation	
	c)	SVC & stat com	
	d)	TCPSTIF	
	e)	TCSC	

Section B

Q.4	a)	Explain with neat sketches, the NGH-SSR damping Scheme.	10
	b)	Explain basic operating principle of UPFC.	10
Q.5	a)	Explain objectives of voltage & Phase angles regulators.	10
	b)	Explain operating principle of TCBR	10
Q.6	Write short notes on any FOUR		20
	a)	IPFC	
	b)	Static VAR system.	
	c)	Sub-Synchronous resonance	
	d)	Applications of STATCOM.	
	e)	Hybrid phase angle regulators.	