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1	e	ct	जा.	CB 43	FACTS	QP Code :72	24/5/16			
						Ar come	0001			
			8	*	(3 Hours)		[Total Marks:	80]		
www.a2zsubjects.com	N.B.: -  1. Question No. 1 is compulsory.  2. Solve any three questions out of remaining five questions.  3. Each question is for 20 Marks.  4. Assume suitable data if necessary.  Q.1  A) Explain the basic types of facts controller.							www.a2zsubjects.com		
	Q.1					4	8010	. 22		
	A) Explain the basic types of facts controller.						Ly.	ZS		
			B) What are the objectives of series compensation?					Ę.		
	C) Explain the importance of Unified Power Flow Controller (UPFC).							JRFC).	jec	
www.a2zsubjects.com			D) What is lo	oad compensato	r? State its objective	ves. as		ts.c		
	Q.	2	*	9		2,p		00 10		
			A) Explain th	e load compens	sation as a phase ba	lancing of unsyr	nmetrical load.	2		
	Q.	B) Explain the Thyristor Controlled Reactor (TCR) in detail & condition to ob Thyristor Switched Reactor (TSR) from TCR, a2zSubjects.com Q. 3  A) Explain Thyristor Controlled Voltage Regulator (TCVR).						W		
www.a2zsubjects.com		В	B) Explain t	he Unified Pow	er Flow Controller	(UPFC) with its	phasor diagram	.a.		
	Q.	4			V			ww.a2zsubj		
			A) What is meant by reactive power biasing? Explain with V-Q characteristics.							
			B) Draw the	raw the ideal compensator characteristics and explain i) Knee point voltage, Vk, ompensated gain, Kr, iii) Max of rated reactive power, Qr Max and iv) Stiff				Vk, e		
	Q	. 5						B		
			A) Explain s	witching conve	rter type series con	npensation (SSS	C).			
			B) Explain the Thyristor Controlled Phase Angle Regulator (TCPAR).							
	Q	. 6								
		Ų.	A) Explain	ower factor cor	rrection in a single	phase system.				
,T		, N		he various para bjects.com	meters which limit	the loading cap	abilities of trainsmis	ssion		

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