2002 SCHEWIE

				EE834	EE834			
USN								

## Eighth Semester B.E. Degree Examination, May/June 2010

HVDC Transmission												
	Time: 3 hrs.  Note: 1. Answer any FIVE full questions.  2. Draw suitable sketches wherever necessary.  3. Assume relevant data if required.											
	1	a. b. c.	Compare A.C. and D.C. t What are the potential app Write a brief note on 'mo	ransmission systems. plications of D.C. transmission dern trends in D.C. transmiss	on? ion'.	(10 Marks) (06 Marks) (04 Marks)						
	2	a. b.		considerations, describe how of D.C. transmission?		vel for D.C. (10 Marks) (06 Marks) (04 Marks)						
4	3	<ul><li>a.</li><li>b.</li><li>c.</li></ul>	accomplished. With the help of block control.	of block diagram, how of diagram, explain the pulse atrol system hierarchy' used to	frequency control used for	(08 Marks) or converter (06 Marks)						
	4	<ul><li>a.</li><li>b.</li><li>c.</li></ul>	valve conduction mode.  A Graetz circuit is operadegrees. If the source	the average output voltage of the average output voltage of the area of the average output and the average output average output average output average output average output average output voltage output average output a	50 Hz supply at a delay a the overlap angle is 4	(10 Marks) angle of 30						
	5	a. b. c.	circuit breaker.  How is the overvoltage p	e schematic and waveforms, rotection provided for a convex D.C. reactor required to procedow:  Number of bridges per pole Rated voltage per bridge  Rated current  I <sub>s2</sub> Frequency  γ <sub>n</sub> , γ <sub>m</sub>	erter pole? event consequent commuta	(08 Marks) (06 Marks)						
	6	a. b. c.	State the various A.C. harmonic filter configurations and their impedance character									
	7	a. b.		ing of HVDC systems for dig of HVDC simulator? State the		(07Marks) (10 Marks) ulator. (10 Marks)						
	8	a	Write short notes on:	b. Limitations of	manual control							

a. VDCOL c. MTDC systems b. Limitations of manual control.

d. Graetz circuit.

(20 Marks)