Code: EEPC1T2

I M. Tech-I Semester-Regular Examinations-April 2015

HVDC TRANSMISSION (POWER SYSTEM CONTROL AND AUTOMATION)

Duration: 3 hours Marks: 5x14=70 Answer any FIVE questions. All questions carry equal marks 1 a) What are the different applications of D.C. transmission system? Explain them in detail. 7 M b) Explain the technological development in control and protection, for better performance and reliability of D.C. transmission system. 7 M 2 Explain the individual characteristics of a Rectifier and an Inverter with sketches. 14 M 3 With block diagram, discuss the principle of operation of a basic power controller. 14 M 4 Explain any one type of a) AC filters. 7 M b) DC filters. 7 M 5 a) Briefly write about the interaction between HVAC and DC systems. 7 M

	b)Discuss about DC power modulation.	7 M
6	Explain the operation and control of series parallel MTDC	links. 14 M
7	a) Explain the over voltages caused in a HVDC system.	7 M
	b) Explain about the smoothing reactor in a dc line.	7 M
8	a) What are the basic principles of over current protection.	7 M
	b) Discuss the various faults exist in converter station? Exp	lain.
		7 M