CODE NO: NR410205 NR

USN

2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS

HVDC TRANSMISSION

(ELECTRICAL&ELECTRONICS ENGINEERING)

NOVEMBER 2005	TIME: 3 HOURS
	MAX MARKS: 80
Answer any FIVE Questions All Questions carry equal marks ?????	
1. Write Technical notes on the following. [8+8=16]	
(a) Back-to-Back HVDC coupling system.	
(b) Back to back DC link along with AC feeder.	
2. Clearly explain the different converter configurations comm converter and bring out their relative merits and demerits. [16]	
3. What are the limitations of manual control of HVDC conver means of achieving control of converters? [16]	rters? Explain the basic
4. What is meant by reactive power control? Explain in detail	has it is achieved. [16]
5. Obtain the mathematical model of a d.c. network and d.c. co converter controller. [16]	onverter, including
6. (a) What are the basic principles of over current protection.	[8]
(b) Discuss the various faults exist in converter station? Explain	in. [8]

7. It is required to eliminate harmonics of order 10 and below 10 other than funda-