lib.

ws March 08 255 Con. 3428–08.

KE (Elect) MI (Ren) HVDC Fransmussin

(REVISED COURSE)

(3 Hours)

9/6/08

CO-3362

[Total Marks: 100

N.B	(2	Question No. 1 is compulsory. Attempt any four questions out of remaining six questions. Assume any suitable data, if required.	F.L.
1.	(a) (b)	Explain the causes of Harmonic generation in HVDC and its effects on the system. What are the classification of HVDC links? Describe each one with neat diagram.	10 10
2.	(a) (b)	Explain the firing schemes in HVDC valves.	10
3.	(a) (b)	Explain with neat diagrams and waveforms the principle of 12 pulse converter. Explain single and double commutation failure.	10 10
4.	Wri	te short notes on :— (a) Harmonic Filters (b) Recent trends in HVDC.	20
5.	(a) (b)	Explain the influence of AC system strength on AC/DC system interaction. Explain in detail the advantages of HVDC transmission system.	10 10
6.	(a) (b)	Explain in brief the starting and stopping of D.C. link. What are the causes and effects of faults occurring in a converter station?	10 10
7.	Wri	te short notes on (any two):— (a) Mode Stabilization (b) Converter consumes reactive power— justify. (c) Impact of inginition delay angle on direct voltage and phase displacement.	20