

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 01

Total No. of Questions : 08

M.Tech.(EE) (2013 Batch E-III) (Sem.-3)
EHVAC & HVDC TRANSMISSION SYSTEM

Subject Code : MTEE-301C

Paper ID : [A3302]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

- Q1. Compare Ac and system with respect to Economics, Reliability and stability of transmission line. Describe HVDC system.
- Q2 a) What is the effect of Electrostatic field on humans?
b) Explain Electrical characteristics of EHV cables.
- Q3. Discuss control scheme of HVDC - Link. Explain converter controllers and different types of mode of Links
- Q4. What are the causes of Harmonics in HVDC system? Explain criteria of design of DC filters.
- Q5. Write a note on :
a) HVDC breakers.
b) Effect of smoothing reactors on voltage and current.
- Q6. a) Discuss various faults existing in converter station.
b) Explain in detail the reactive power requirement in HVDC converter.
- Q7. a) Why does not line generated corona noise not interfere with TV reception or FM reception?
b) Design of EHV-lines based on transient over voltages.
- Q8. a) Explain solution techniques of DC power Flow.
b) What are problems in parallel operation of HVDC/AC system?