NR

Code No: A4902

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I Semester Examinations, October/November-2011
HVDC TRANSMISSION
(ELECTRICAL POWER ENGINEERING)

Time: 3hours **Max. Marks: 60**

Answer any five questions
All questions carry equal marks

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1. a. Compare EHVAC and HVDC transmission
   b. Explain the advantages and disadvantages of HVDC Transmission. [12]

2. a. Explain the analysis of Graetz circuit without overlap.
   b. Explain the Characteristics of twelve pulse converter. [12]

3. Draw the schematic diagram of a typical HVDC Converter station and explain its major components. [12]

4. a. Explain the various types of DC and AC filters.
   b. Explain the converter bridge characteristics. [12]

5. Explain the following.
   a. Individual phase control
   b. Equidistant pulse control
   c. Equidistant Firing angle. [12]

6. Explain the various types of MTDC Systems. [12]

7. a. Explain the Converter faults.
   b. Explain the protection against over currents. [12]

8. a. Explain the over voltages in a converter station.
   b. Write short notes on surge arresters. [12]

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