

325841(25)

**B. E. (Eighth Semester) Examination,
Nov.-Dec. 2017**

(New Scheme)

(EEE Engg. Branch)

EHV AC & DC TRANSMISSION

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Part (a) of each questions is compulsory.
Attempt any two parts from (b), (c) and (d).*

Unit-I

- 1. (a) Give a neat sketch of different HVDC links. 2

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- (b) Discuss the effect of lightning on transmission system. 7
- (c) Explain the protective measures for the control of lightning and switching overvoltages in transmission system. 7
- (d) What are the different methods of Reactive power compensation in EHV AC lines. 7

Unit-II

- 2. (a) What are the applications of DC transmission. 2
- (b) Give basic description of HVDC transmission system in detail. 7
- (c) Write short notes on Multi-Terminal DC system (MTDC) 7
- (d) Compare EHV AC and DC transmission system on various context. 7

Unit-III

- 3. (a) Draw the basic Graetz Circuit. 2
- (b) Discuss desired features of constant Firing angle control. 7

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(c) Explain starting and stopping methods of DC link. 7

(d) A Graetz bridge operates with a delay angle of 15°. The leakage reactance of the transformer is 10 ohm. The line to line AC voltage is 85 kV. Compute the overlap angle and DC voltage for

(i) $I_d = 2000 \text{ A}$

(ii) $I_d = 4500 \text{ A}$ 7

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Unit-IV

4. (a) What is ignition angle control. 2

(b) Explain the features of constant current control. 7

(c) Explain parallel operation of HVDC and DC system. Also explain its advantages. 7

(d) Discuss in detail constant extinction angle control. 7

Unit-V

5. (a) Write short notes on Smoothing Reactor. 2

(b) Explain the effect of corona effect and DC line insulators in DC line. 7

(c) Discuss the causes of overvoltage in transmission line. 7

(d) Explain DC circuit breaker in detail. 7

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