

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

MEPE-302(B)**M.E./M.Tech., III Semester**

Examination, November 2018

EHVAC and DC Transmission**(Elective-II)****Time : Three Hours****Maximum Marks : 70**

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Discuss series-parallel multi-terminal HVDC system and its control. 7
b) Discuss the list of Dominant harmonics present in the various types of HVDC converters. 7
2. a) Draw the typical layout of HVDC transmission system and explain each part. 7
b) Why is EHVAC transmission system required? What are the problems associated in EHVAC system? 7
3. a) What is Travelling wave? Specifications of travelling waves. 7
b) Explain reflection and refraction travelling waves. Derive necessary expressions. 7
4. Explain lighting stroke mechanism what are the general principles of the lighting protection problems. 14

MEPE-302(B)

PTO

241

[2]

5. What are the problems associated with Extra long con lines? How this problem over come explain method
6. a) Explain principle of operation Graetz circuit.
b) Explain parallel operation of HVAC and HVDC
7. What is Compensation? Explain shunt and compensation?
8. a) Explain the term constant extinction angle and ignition angle control.
b) Explain tuned power lines.

https://www.rgpvonline.com

MEPE-302(B)

242