EX/EE-7005 (2) (CBGS)

B.E. VII Semester

Examination, November 2018

Choice Based Grading System (CBGS) EHVAC/DC Transmission

Time: Three Hours

Maximum Marks: 70

Attempt any five questions. Note: i)

- All questions carry equal marks.
- Explain the problems involved in EHV transmission. 7
 - Give a neat sketch of different HVDC links.
- Explain various types of AC transmission system and compare them.
 - Explain the advantages of HVDC cables over EHVAC cables. https://www.rgpvonline.com
- Explain why it is necessary to use compensation of EHVAC lines.
 - What is SVC? Explain in brief.
- Explain the operation of Graetz circuit and derive expression for output voltage.
 - b) Explain the concept of Thyristor controlled series capacitor.

5.	a)	What are the causes of harmonics in HVDC	system?
		Explain its adverse effect in HVDC system.	7

- Explain the need of compensation in transmission system. Also explain STATCOM.
- 7 Describe the constant extinction angle control.
 - Explain the concept of attenuations and distortion in travelling waves. https://www.rgpvonline.com
- What are the main causes of voltages surges on overhead transmission lines? Explain how the waveform of surge is specified.
 - b) Explain the protective measures for the control of lighting and switching over voltages in transmission system.
- 8. Write short notes (any two)

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- FACTS concept and application
- Mechanism of lighting stroke
- Ignition angle control

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