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Roll No

EE/EX-7005 (2) (CBGS)

B.E. VII Semester

Examination, November 2019

Choice Based Grading System (CBGS) EHVAC/DC Transmission

Time: Three Hours

Maximum Marks: 70

Attempt any five questions. Note: i)

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- All questions carry equal marks.
- Explain the advantages and disadvantages of HVDC Transmission.
 - Explain the problems involved in EHV transmission.
- Describe series compensation and list its merits and demerits.
 - Explain the problems associated with A.C. interconnection. How they can be overcome?
- What are the basic requirement for the firing pulse generation of HVDC valve? Describe any one method of firing angle control.
 - Explain various kinds of D C links.
- 4. a) What are FACT devices? Explain its importance.
 - Describe the working principle of STATCOM.

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- Explain the following
 - UPFC
 - Thyristor Controlled Phase Shifting Transform (TCPST)
- Discuss the problems associated with the harmonics introduced by HVDC converters. Also explain the characteristics of Harmonics.
 - Explain the following
 - Commutation failure
 - ii) Multi terminal D.C lines
- 7. Explain the parallel operation of HVDC and HVAC operation. Discuss the problem and advantages in parallel operation.
- 8. Explain the following
 - Over voltage in transmission system
 - Ignition angle control
 - Converter analysis Graetz circuit
 - Adverse effects

