

Total No. of Questions : 4]

SEAT No. :

**PA-10186**

[Total No. of Pages : 1

[6010]-56

**B.E. (Electrical) (Insem)**

**EHV AC TRANSMISSION**

**(2019 Pattern) (Semester-VIII) (Elective-VI) (403151 (A))**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Use of calculator is allowed.*
- 5) *Assume Suitable data if necessary.*

**Q1) a)** Explain the need of EHV AC Transmission Lines. **[7]**

b) Explain different types of Vibrations of Transmission Conductors in brief. **[8]**

OR

**Q2) a)** Explain Power Handling Capacity & Line losses. **[7]**

b) Explain travelling wave differential equations and their solution. **[8]**

**Q3) a)** Explain the Properties of Bundled Conductors. **[7]**

b) Explain the line Capacitance Calculations. **[8]**

OR

**Q4) a)** Explain inductance of EHV line Configuration. **[7]**

b) Write note on Temperature rise of conductors & current carrying capacity. **[8]**

