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]**

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