Total No. of Questions : 4]

SEAT No. :

P-5338

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[6188]-315
B.E. (Mechanical) (Honors) (Insem)
MODELLING AND SIMULATION OF EHV
(2019 Pattern) (Semester-VII) (402034)

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) ***Assume Suitable data if necessary***

Q1) a) Define motor drives for electric vehicles with its advantage and requirements. **[8]**

b) Explain Basic Elements of the Electric Drive Systems with neat sketch. **[6]**

OR

Q2) a) Classify EV motor drives with its comparative analysis. **[6]**

b) Explain DC motor drives with its working principal, advantages, disadvantages and applications. **[8]**

Q3) a) Define energy storages, explain with its classifications. **[8]**

b) Explain the constructional details of li-ion battery with its advantages, disadvantages and applications. **[8]**

OR

Q4) a) Compare types of battery cooling with its advantages and disadvantages. **[8]**

b) Explain NVH analysis with its importance in electric vehicles. **[8]**

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