Total No. of Questions : 6]

SEAT No. :

P80

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OCT. -16/BE/Insem. - 135

B.E. (Electrical)

INTRODUCTION TO ELECTRICAL TRANSPORTATION SYSTEMS

(2012 Course) (Semester - I) (Elective-II) (403144)

Time : 1 Hour] *[Max. Marks :30*

Instructions to the candidates:

1) ***Neat diagrams must be drawn wherever necessary.***
2) ***Figures to the right indicate full marks.***
3) ***All questions carry equal marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) Write the advantages and disadvantages of Electric traction. **[4]**

b) Explain the waterways mode of transportation with advantages and disadvantages. **[6]**

OR

Q2) Explain the need, importance and role of transportation systems in society. **[10]**

Q3) a) Explain the various sources of energy used in transportation systems. **[4]**

b) Explain the impact of batteries on environment. **[6]**

OR

Q4) Explain the working of Ni-cd battery with its characteristics. **[10]**

Q5) a) Explain the process of conversion of electrical energy into mechanical energy in AC machines. **[4]**

b) Explain single phase AC to DC converter with neat diagram. **[6]**

OR

Q6) Explain the speed-torque characteristics of DC drives with neat diagram. **[10]**

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