

- (c) Explain with diagram construction of core type and shell type transformer. **07**
- Q.4** (a) State significance of the back emf in DC motor. **03**
 (b) Classify and compare various DC motor. **04**
 (c) Explain construction of synchronous generator with diagram. **07**
- OR**
- Q.4** (a) Give the classification of Induction motor. **03**
 (b) Discuss how the rotating magnetic field is produced in three phase induction motor. **04**
 (c) Explain the working of single phase induction motor with diagram. **07**
- Q.5** (a) State function of various parts of HT cable. **03**
 (b) Give the comparison of fuse and MCB. **04**
 (c) Explain plate earthing with diagram. **07**
- OR**
- Q.5** (a) What is power factor and why improvement is required in that? **03**
 (b) State and explain in brief important electrical characteristics of battery. **04**
 (c) Calculate the electricity bill amount for a month of April, if 4 bulbs of 40 W for 5 h, 4 tube lights of 60 W for 5 h, a TV of 100 W for 6 h, a washing machine of 400 W for 3 h, a water pump of 0.5 HP for 15 minutes are used per day. The cost per unit is Rs 3.50. Consider 1 HP = 746 watts **07**

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