

- a) Insulation b) Insulation, cooling and lubrication
- c) Insulation and cooling d) lubrication

SECTION - 'B'

- Q. 4 With the help of neat sketch explain the construction and working of an alternator. (05)
- Q. 5 For an alternating quantity, $I = 100 \sin 125t$ calculate. (05)
- a) Maximum value of current
 - b) RMS value
 - c) Average value
 - d) Frequency
 - e) Value of current after 0.005 sec.
- Q. 6 A) Write short notes on the types of induction motors. (03)
B) State the significance of Power Factor. (02)
- Q. 7 A) Enlist and explain transformer losses. (03)
B) What do you understand from star delta connection? (02)
- Q. 8 A) Explain: RMS and Average value. (02)
B) State and explain Faraday's laws of electromagnetic induction. (02)
C) What is all day efficiency of transformer? (01)
- Q. 9 Explain construction and working of three phase induction motor. (05)
- Q. 10 A consumer has following connected load: 10 lamps of 60W each and 2 heater of 1000W each. His maximum demand is 1500W. On an average he uses 8 lamps for 5 hours a day and each heater for 3 hours a day. Find his load, monthly consumption and load factor. (05)
