

making short circuit test, low voltage winding is always short circuited. Why?

- Q-6** **Attempt all questions** **(14)**
- (a) A 30kVA, 2400/120 V, 50 Hz transformer has a high voltage winding resistance of 0.1Ω and a leakage reactance of 0.22Ω . The low voltage winding resistance is 0.035Ω and the leakage reactance is 0.012Ω . Find the equivalent winding resistance, reactance and impedance referred to the (i) high voltage side and (ii) the low voltage side. **(07)**
- (b) Explain the Production of Rotating field of 3 Phase Supply for Induction Motor. **(07)**
- Q-7** **Attempt all questions** **(14)**
- (a) A 30kVA, 2400/120 V, 50 Hz transformer has a high voltage winding resistance of 0.1Ω and a leakage reactance of 0.22Ω . The low voltage winding resistance is 0.035Ω and the leakage reactance is 0.012Ω . Find the equivalent winding resistance, reactance and impedance referred to the (i) high voltage side and (ii) the low voltage side. **(07)**
- (b) Explain Swinburne's test to find the efficiency of a d. c. motor. **(07)**
- Q-8** **Attempt all questions** **(14)**
- (a) Explain in detail armature reaction in dc machines. **(07)**
- (b) Explain the methods of improving Commutation in D.C. Generator. **(07)**

