

QUESTION 5: SINGLE-PHASE TRANSFORMERS

- 5.1 Core type ✓
Shell type ✓ (2)
- 5.2 5.2.1 Auto-transformer: To regulate transmission line voltages to the required value ✓ OR
Used in low power applications to connect circuits with different voltage classes (1)
- 5.2.2 Centre tap transformer: Power supply rectifiers circuit. ✓ (1)
- 5.3 Lenz's law states that an induced electric current flows in a direction ✓ such that the current opposes the change that induced it. ✓ (2)
- 5.4 The operation of the transformer is based on the principle of mutual induction (Faraday's law of mutual induction).
When an alternating voltage is applied to the primary winding, an alternating flux is set up in the core ✓ which links with the secondary winding ✓, inducing in it an emf of the same frequency ✓. This is known as mutual inductance.
If a load is connected to the secondary winding, a current will flow through it ✓. Power is therefore transferred entirely magnetically from the primary ✓ to secondary winding. ✓ (6)
- 5.5 Copper losses ✓
Iron losses ✓
Dielectric losses ✓
Stray losses (3)
- 5.6 5.6.1 $\frac{N_p}{N_s} = \frac{V_p}{V_s}$ ✓
 $\frac{15}{1} = \frac{2200}{V_s}$ ✓
 $V_s = 146.68V$ ✓ (3)
- 5.6.2 Primary current
 $S = V_p \times I_p$
 $I_p = \frac{S}{V_p}$ ✓
 $= \frac{50000}{2200}$ ✓
 $= 22.73A$ ✓ (3)
- 5.6.3 Secondary current
 $\frac{N_p}{N_s} = \frac{I_s}{I_p}$ ✓
 $\frac{15}{1} = \frac{I_s}{22.73}$ ✓
 $I_s = 340.91A$ ✓ (3)
- [24]**

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