

## Chapter 10a Transformers

1. What is the purpose of a transformer? Describe the operating principle.
2. Define: Primary, Secondary, Step-up, Step-Down, and Turns Ratio
3. Compare core and shell transformer designs.
4. Why is the core of a transformer laminated?
5. Why are some transformers provided with tap changers? What precautions should be observed when operating a manually operated tap changer?
6. Explain why increasing the load on the secondary of a transformer causes the primary current to increase.
7. What is an autotransformer? State their advantages and disadvantages.
8. Explain polarity as it applies to transformers.