

Name _____

The Magic of Electricity Distribution

Multiple Choice Questions

1. What is the primary function of transformers in electricity distribution?
 - a) To generate electricity
 - b) To transform electricity from high voltage to low voltage
 - c) To store electricity
 - d) To distribute electricity to homes

2. What does a step-up transformer do?
 - a) It increases the voltage.
 - b) It decreases the voltage.
 - c) It stores electricity.
 - d) It transmits electricity to power plants.

3. What happens when electricity flows through the primary coil of a transformer?
 - a) It creates a magnetic field around the secondary coil.
 - b) It induces an electric current in the primary coil.
 - c) It decreases the number of turns in the secondary coil.
 - d) It increases the resistance in the transformer.

4. Why is the electrical grid important in electricity distribution?
 - a) It is responsible for generating electricity.
 - b) It increases the voltage of electricity.
 - c) It efficiently delivers electricity across large areas.
 - d) It stores electricity for later use.

5. What is one potential future advancement in transformer technology mentioned in the passage?
 - a) Developing smaller transformers
 - b) Increasing energy loss during voltage transformation
 - c) Reducing the efficiency of transformers
 - d) Enhancing the reliability of electricity distribution

