



Generation, Transmission, & Distribution

TOTAL POINTS 10

1. What are three segments of the Electric Power System?

1 point

- ☒ Electric, Gas, and Oil
- ☐ Generation, Transmission, and Consumption
- ☐ Generation, Transmission, and Distribution
- ☐ Electric, Transmission, and Consumption

2. What is the function of the Generation system?

1 point

- ☒ To produce voltage
- ☐ To transport electricity from a distribution substation to the consumers' meter
- ☐ To transport electricity from a step-up transformer to a distribution substation
- ☐ None of the above

3. Which of the following statements is correct?

1 point

- ☐ Non-renewable fuels exist in unlimited quantities



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Graded Quiz • 30 min

Due Mar 9, 1:29 PM IST

3. Which of the following statements is correct?

1 point

- ☐ Non-renewable fuels exist in unlimited quantities
- ☒ Renewable fuels can be replenished in a relatively short period of time
- ☐ Renewable fuels are **not** considered to be "green"
- ☐ None of the above

4. Which fuel source produces most of the electric energy used in the U.S.?

1 point

- ☐ Oil
- ☒ Natural Gas
- ☐ Nuclear
- ☐ Coal

5. Which of the following statements is correct?

1 point

- ☐ Transmission lines run at high voltages appropriate for end use
- ☐ Transmission lines do not run up to hundreds of miles
- ☐ Transmission lines aren't mostly overhead
- ☒ Transporting electricity from the generating plants to the distribution pipeline is the function of the transmission system



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6. Which system has a single power source for a group of distribution customers?

1 point

- ☐ Interconnected distribution networks
- ☒ Radial distribution networks

7. Insulators are used for which of the following? Check all that apply

1 point

- ☒ Insulate structures from energized conductors.
- ☐ Protect equipment from one time events, such as a falling tree branch.
- ☐ Protect equipment from lightning.
- ☒ Insulate energized components from other equipment.

8. What statement about primary voltage in the U.S. is true?

1 point

- ☒ None of the above
- ☐ 13.8 kV is the most common primary voltage y>
- ☐ Primary voltage is usually on the bottom of pole configurations
- ☐ Primary voltage is distributed to customers at 120/240 single phase

9. Rank the following items in order from highest to lowest voltage.

1 point

1. Secondary/Service voltage



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9. Rank the following items in order from highest to lowest voltage.

1 point

1. Secondary/Service voltage
2. AAA battery voltage
3. Primary voltage
4. Transmission voltage

- ☐ 1,2,3,4
- ☒ 4,3,1,2
- ☐ 4,3,2,1
- ☐ 1,2,4,3

10. Read the following statement and determine whether it is true or false:

1 point

When the voltage reduction occurs, this allows the utility to use smaller wires and shorter poles for distributing power to customers.

- ☒ True
- ☐ False

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