



1. What are the following devices called?

- a. Mills
- b. Converters
- c. Weathervanes
- d. Turbines

2. Place the following events in sequence: A) Persians use windmills to grind grain; B) Wind is used to power sailboats; C) Europeans develop windmills

- a. A, C, B
- b. B, A, C
- c. C, B, A
- d. A, B, C

3. How would an early Persian windmill compare to an early European windmill?

- a. Persian windmill blades were vertical, like propellers, while European ones were horizontal, like egg-beaters
- b. Persian windmill blades were horizontal, like egg-beaters, while European ones were vertical, like propellers
- c. Persian windmills were made of discarded sails, while European windmills were made of wood
- d. Persian windmills were made of stone, while European windmills were made of wood

4. What type of energy is torque?

- a. Rotational energy
- b. Potential energy
- c. Chemical energy
- d. Wind energy

5. What would be one easy way to increase the amount of torque a wind turbine produces?

- a. Decrease the height of the turbine
- b. Decrease the length of the rotor blades
- c. Increase the height of the turbine
- d. Increase the length of the rotor blades

6. Why is wind energy considered a renewable resource?

- a. It can be harnessed by human beings.
- b. It's related to the weather.
- c. It's unlikely that humans will run out of it anytime soon.
- d. It can be used to generate electricity.

7. What is the best definition of a generator?

- a. A device that measures wind speed.
- b. A device that converts mechanical motion into electricity.
- c. A device that conducts electrical current through a wire.
- d. A device that spins when exposed to wind.

8. If you visited a wind farm, what would you see?

- a. Wind blowing crop seeds into the earth.
- b. Several dozen wind turbines.
- c. A geological formation where wind blows out of the ground.
- d. A factory in which wind is produced by giant fans.

9. Compared to the amount of energy generated by fossil fuels, the amount of energy generated by wind in the United States is:

- a. Meager
- b. Substantial
- c. Equivalent
- d. Gigantic

10. Which of the following is a drawback to wind energy?

- a. Wind turbines can cause cancer among people who live near them.
- b. Wind turbines can hurt flying animals.
- c. There aren't enough suitable sites in the U.S. to build wind farms.
- d. Wind turbines emit greenhouse gases.