Assessment for ASEEN Wind Energy Curriculum

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1) Answer: _____

Which are types of wind turbines?

A. Vertical axis
B. Horizontal axis
C. Dual axis
D. A and B

2) Answer: _____

Regarding wind turbines, a _____ machine has its blades rotating on an axis _____ to the ground.

A. vertical / parallel
B. vertical / perpendicular
C. horizontal / perpendicular
D. horizontal / diagonal

3) Answer: _____

Wind power captures the _____ energy of the wind.

A. Chemical
B. Angular
C. Kinetic
D. Potential

4) Answer: _____

Which of the following solar/wind electrical systems could allow the "selling" of excess power?

A. Off-grid electrical system
B. On-grid electrical system
C. Grid-tied electrical system
D. Stand-alone electrical system

5) Answer: _____

"Net metering" or "net billing" may be associated with which of the following?

A. Grid-tied electrical systems
B. Off-grid electrical systems
C. On-grid electrical systems
D. None of the above

6) Answer: _____

What is the current cost to extend a power line to an electricity grid (2015)?

A. $5,000 to $10,000 per mile
B. $13,000 per mile
C. $15,000 to $50,000 per mile
D. Over $50,000 per mile

7) Answer: _____

Texas wind farms power the equivalent of how many homes on an average day?

A. 500,000 homes
B. Between 1 to 1.5 million homes
C. Approximately 2 million homes
D. Over 3 million homes

8) Answer: _____

Which State has the best wind resources in the U.S.?

A. California
B. South Carolina
C. Texas
D. New Mexico

9) Answer: _____

Land used for wind farms can be simultaneously used for agriculture and ranching.

A. True
B. False

10) Answer: _____

Which country meets half of its nation's energy needs from wind power?

A. United States
B. China
C. Brazil
D. Australia

11) Answer: _____

According to data from the National Renewable Energy Laboratory, Texas' onshore wind energy potential at 80 meters hub height is:

A. 410,000 MW
B. 1,901,530 MW
C. 3,300,100 MW
D. 738,204 MW

12) Answer: _____

The U.S. power grid is divided into how many interconnections?

A. 50
B. 7
C. 3
D. 5

13) Answer: _____

_____ lines carry electricity long distances while _____ lines carry electricity to buildings.

A. Transmission / distribution
B. Intercontinental / transmission
C. Distribution / transmission
D. Intercontinental / distribution

14) Answer: _____

The average output for household-size wind turbines is:

A. 10 kW
B. 100 kW
C. 500 kW
D. 3 MW

15) Answer: _____

The average output for medium-size wind turbines is:

A. 10 kW
B. 100 kW
C. 500 kW
D. 3 MW

16) Answer: _____

The average output for large wind turbines is:

A. 10 kW
B. 100 kW
C. 500 kW
D. 3 MW

17) Answer: _____

The higher the elevation of a wind turbine, the higher the average power output.

A. True
B. False

18) Answer: _____

The U.S. has more than _____ miles of high-voltage transmission lines.

A. 100,000
B. 200,000
C. 300,000
D. 400,000

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