

TRUE/FALSE

1. A charge controller is used when charging a battery.

ANS: T PTS: 1 REF: Glossary of Terms

2. A solar photovoltaic (PV) system is made up of the components that convert solar energy into mechanical energy suitable for connection to a load.

ANS: F PTS: 1 REF: Introduction to Solar Photovoltaic (PV) Systems

3. The world PV market is estimated to be less than 10 billion dollars.

ANS: F PTS: 1 REF: The Photovoltaic Market

4. While the United States demand for photovoltaic systems is strong, the global market, especially in Germany and Japan, is much larger.

ANS: T PTS: 1 REF: The Photovoltaic Market

5. The fact that photovoltaic systems are expensive is an advantage.

ANS: F PTS: 1
REF: Photovoltaic System Advantages and Disadvantages

COMPLETION

1. A complete, environmentally protected unit consisting of solar cells, optics, and other components designed to generate dc power when exposed to sunlight is called a(n) _____.

ANS: module

PTS: 1 REF: Glossary of Terms

2. A solar cell is the basic _____ device that generates electricity when exposed to light.

ANS: photovoltaic

PTS: 1 REF: Glossary of Terms

3. Perhaps the biggest advantage of a photovoltaic system is a(n) _____ in the future.

ANS: investment

PTS: 1 REF: Photovoltaic System Advantages and Disadvantages

4. Photovoltaic systems are _____ and can easily withstand outside weather conditions.

ANS: strong

PTS: 1 REF: Photovoltaic System Advantages and Disadvantages

5. _____ radiation amounts vary across the country.

ANS: Solar

PTS: 1 REF: Photovoltaic System Advantages and Disadvantages

6. At this time _____ are the only way to store electricity produced by the sun for use at night or during very cloudy and stormy weather.

ANS: batteries

PTS: 1 REF: Photovoltaic System Advantages and Disadvantages

7. A(n) _____ system incorporates a gas or diesel powered generator along with a PV system.

ANS: hybrid

PTS: 1 REF: Types of Photovoltaic Systems

SHORT ANSWER

1. What is a hybrid system?

ANS:

A hybrid system is a system comprising multiple power sources.

PTS: 1 REF: Glossary of Terms

2. What is the basic photovoltaic system component that generates electricity when exposed to sunlight?

ANS:

A solar cell is the basic photovoltaic system component that generates electricity when exposed to sunlight.

PTS: 1 REF: Introduction to Solar Photovoltaic (PV) Systems

3. Which state in the United States has the most photovoltaic systems installations?

ANS:

California has the most photovoltaic systems installations.

PTS: 1 REF: The Photovoltaic Market

4. What is future demand for photovoltaics expected to do?

ANS:

Future demand for photovoltaics is expected to increase.

PTS: 1 REF: The Photovoltaic Market

5. How are photovoltaic systems safe?

ANS:

PV systems are safe because there are no exposed electrical or moving parts that could harm anyone.

PTS: 1 REF: Photovoltaic System Advantages and Disadvantages

6. What kind of incentives can help make photovoltaic systems more affordable?

ANS:

State and federal incentives such as rebates and tax credits have made PV systems more affordable.

PTS: 1 REF: Photovoltaic System Advantages and Disadvantages

7. What type of systems are the simplest and least expensive PV system?

ANS:

Day use only systems are the simplest and least expensive PV system.

PTS: 1 REF: Types of Photovoltaic Systems

8. Why does an interactive system not require batteries?

ANS:

A interactive system does not need battery storage because it uses the utility grid as power reserve.

PTS: 1 REF: Types of Photovoltaic Systems