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****Question:**** What is the primary function of photovoltaic cells in solar panels?

- A) To store electricity for later use.
- B) To convert sunlight into electricity.
- C) To regulate the flow of electricity.
- D) To reduce the cost of electricity.

****Correct Answer:**** B

2

****Question:**** Which of the following is NOT mentioned as an advantage of solar energy?

- A) Renewable source
- B) Low maintenance
- C) Increased home security
- D) Cost-effective in the long run

****Correct Answer:**** C

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****Question:**** What is one of the main challenges associated with solar energy?

- A) High installation costs
- B) Limited availability of sunlight
- C) Noise pollution from solar panels
- D) Depletion of natural resources

****Correct Answer:**** A

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****Question:**** How do solar-powered chargers provide a practical solution for certain situations?

- A) They generate their own Wi-Fi signal.
- B) They can charge devices without access to traditional electricity.

- C) They are waterproof and can be used underwater.
- D) They can power small appliances like refrigerators.

****Correct Answer:** B**

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****Question:**** What makes solar water purifiers particularly beneficial in specific locations?

- A) They can desalinate seawater.
- B) They can generate hot water for showers.
- C) They provide safe drinking water in areas with limited clean water access.
- D) They can be used to irrigate crops in arid regions.

****Correct Answer:** C**

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****Question:**** According to the text, what was the approximate global capacity of installed solar photovoltaic (PV) capacity in 2020?

- A) 770 megawatts
- B) 770 gigawatts
- C) 770 terawatts
- D) 770 petawatts

****Correct Answer:** B**

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****Question:**** How has the levelized cost of electricity (LCOE) from utility-scale solar PV projects changed since 2010?

- A) Increased by over 80%
- B) Decreased by over 80%
- C) Remained relatively stable
- D) Fluctuated unpredictably

****Correct Answer:** B**

8

****Question:**** What is one of the key environmental benefits of solar energy?

- A) It reduces reliance on fossil fuels.
- B) It increases biodiversity in surrounding areas.
- C) It improves air quality by releasing oxygen.
- D) It strengthens the ozone layer.

****Correct Answer:** A**

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****Question:**** How does solar energy contribute to energy access?

- A) It establishes new fossil fuel power plants.
- B) It provides electricity in remote and underserved areas.
- C) It reduces the need for energy conservation.
- D) It centralizes energy production in urban centers.

****Correct Answer:** B**

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****Question:**** According to the text, what is driving increased residential adoption of solar energy?

- A) Government mandates requiring solar panel installations.
- B) Rising costs of traditional electricity sources.
- C) A growing trend of homeowners wanting to live off-grid.
- D) Increased availability of solar panel installation professionals.

****Correct Answer:** B**