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21. What is the term used to describe the process by which solar cells convert sunlight into electricity?

- a) Photovoltaic effect (Correct)
- b) Solar radiation absorption
- c) Solar thermal conversion

22. How does the efficiency of solar panels typically change over their lifespan?

- a) Efficiency increases gradually
- b) Efficiency remains constant
- c) Efficiency decreases gradually (Correct)

23. Which material is commonly used to create thin-film solar cells?

- a) Cadmium telluride (Correct)
- b) Lead-acid
- c) Nickel-cadmium

24. What is the purpose of solar tracking systems in maximizing energy production?

- a) To rotate solar panels continuously
- b) To adjust the angle of solar panels to face the sun (Correct)
- c) To store excess energy in batteries

25. Which renewable energy source is often used in conjunction with solar energy to provide continuous power supply?

- a) Wind energy (Correct)
- b) Geothermal energy
- c) Biomass energy

26. How does the "albedo effect" influence solar energy production?

- a) It reduces the reflection of sunlight from surfaces, increasing energy production
- b) It increases the reflection of sunlight from surfaces, decreasing energy production (Correct)
- c) It has no impact on solar energy production

27. What is the primary disadvantage of solar energy compared to other forms of renewable energy?

- a) Limited availability
- b) High initial installation costs (Correct)
- c) High maintenance requirements

28. Q28. What is the typical payback period for residential solar panel installations?

- a) 1-2 years
- b) 5-10 years (Correct)
- c) 20-30 years

29. Which government policy encourages the adoption of solar energy by offering financial

- a) Carbon tax
- b) Feed-in tariffs (Correct)
- c) Energy deregulation

30. How does shading affect the performance of solar panels?

- a) Shading has no effect on solar panel performance
- b) It reduces energy production by blocking sunlight (Correct)
- c) It increases energy production by providing cooler temperatures