

Q1. A solar cell is also called \_\_\_\_ cell because of its best example.

- a. photoconductive
- b. photovoltaic
- c. photoelectric
- d. thermionic

Answer: **b**

Q2. The principle of solar cell is to convert sunlight into electricity through the phenomena of photovoltaic effect. True / False

Answer: **True**

Q3. The voltage difference produced in semiconductor material of solar cell depends on \_\_\_\_.

- a. light intensity
- b. size of semiconductor material
- c. generation of electrons holes pairs
- d. all are correct

Answer: **b**

Q4. The another name of solar cell is solar energy conversion. True / False

Answer: **True**

Q5. A \_\_\_\_ system is used to produce electricity by using the sunlight through photovoltaic effect.

- a. solar power generation
- b. photoelectric
- c. seebeck
- d. Thomson

Answer: **a**

Q6. A solar cell consists of silicon PN junction. True / False

Answer: **True**

Q7. A typical solar cell generates \_\_\_\_ output voltages.

- a. .9v
- b. .7v
- c. .6v
- d. .2v

Answer: **c**

Q8. Mostly, a silicon material is used in solar cells. True / False

Answer: **True**

Q9. The general range of solar cell efficiency is \_\_\_\_.

- a. 5% → 10%
- b. 10% → 15%
- c. 15% → 20%
- d. all are correct

Answer: **c**

**Q10. When the solar cells are connected in parallel the voltage remain same and current added.** True / False

**Answer: True**

**Q11. When the solar cells are connected in series to make a solar panel, which provides \_\_\_\_\_.**

- a. increase voltages
- b. current remains same
- c. decrease voltages
- d. a & b are correct

**Answer: d**

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**Q12. The power output of solar cell depends on level of light.** True / False

**Answer: True**

**Q13. The current of solar cell is \_\_\_\_\_ proportional to the light/illumination.**

- a. directly
- b. indirectly

**Answer: a**

**Q14. Solar cells are used to charge the batteries of satellites.** True / False

**Answer: True**

**Q15. Which semiconductor material is mostly used for solar cell ?**

- a. Silicon
- b. Germanium
- c. Selenium
- d. Gallium Arsenide

**Answer: a**

**1. The efficiency of a solar cell may be in the range\_\_\_\_\_**

- (a) 2 to 5%
- (b) 10 to 15%
- (c) 30 to 40%
- (d) 70 to 80%

**Answer : B**

**2. A solar cell works on the principle of\_\_\_\_\_**

- (a) photoelectricity
- (b) photographic camera
- (c) photovoltaic conversions
- (d) photosynthesis

**Answer: C**

**4. A module in a solar panel refers to\_\_\_\_\_.**

- (a) series arrangement of solar cells.
- (b) parallel arrangement of solar cells.
- (c) series and parallel arrangement of solar cells.
- (d) None of the above

**Answer : C**

**5. Solar cells are made of\_\_\_\_\_**

- (a) silicon
- (b) germanium
- (c) silver
- (d) aluminium.

**Answer : A**