Batteries and ZLD week8_Assignment8

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1. A 2V battery has _______ than a Zn/Ag2O battery.
   - higher energy density
   - lowest energy density
   - equal to 2V
   - none of the above
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - lower energy density

2. How many types of fuel cells are there?
   - 2
   - 3
   - 4
   - 5
   - 6
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - 4

3. The gas resistance ratio increases:
   - Sensitivity increases
   - Sensitivity decreases
   - Life expectancy increases
   - Life expectancy decreases
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - Life expectancy decreases

4. A lead-acid battery is represented as:
   - $\text{Ca}^{2+}+2\text{H}_2\text{O} + \text{Zn}^{2+} + \text{H}_2 + 2\text{O}_2$
   - $\text{CaO} + \text{H}_2\text{O} + \text{ZnO}$
   - $\text{Ca}^{2+} + \text{Zn}^{2+} + \text{H}_2\text{O}$
   - $\text{Zn}^{2+} + \text{O}_2$
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - $\text{Ca}^{2+} + \text{Zn}^{2+} + \text{H}_2\text{O}$

5. What is ZLD?
   - Zero liquid displacement
   - Zero liquid flow
   - Zero liquid discharge
   - Zero liquid efficiency
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - Zero liquid discharge

6. What is the major disadvantage of evaporation ponds for ZLD?
   - Population area is large
   - Not economically viable
   - Takes longer time
   - All of the above
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - All of the above

7. A conventional ZLD operates on the principles of:
   - Desalination
   - Depressurization
   - Size separation
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - Size separation

8. A rechargeable battery is represented as:
   - $\text{Ca}^{2+}+2\text{H}_2\text{O} + \text{Zn}^{2+} + \text{H}_2 + 2\text{O}_2$
   - $\text{CaO} + \text{H}_2\text{O} + \text{ZnO}$
   - $\text{Ca}^{2+} + \text{Zn}^{2+} + \text{H}_2\text{O}$
   - $\text{Zn}^{2+} + \text{O}_2$
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - $\text{Ca}^{2+} + \text{Zn}^{2+} + \text{H}_2\text{O}$

9. Environmental regulations on discharge of specific species are becoming stricter.
   - Water recovery is higher
   - Economically affordable
   - None of these
   - The answer is incorrect. Grade: 0
   - Accepted Answers:
     - None of these

10. A tertiary battery is useful:
    - Only once but with high voltage
    - As a battery with high voltage
    - As rechargeable battery
    - As reserve battery
    - The answer is incorrect. Grade: 0
    - Accepted Answers:
      - As reserve battery