

Q-1 When electric current is passed through a cell having an electrolyte, the positive ions move towards the cathode and the negative ions towards the anode. If the cathode is pulled out of the solution

A)-The positive and negative ions will move towards the anode

B)- The positive ions will start moving towards the anode, the negative ions will stop moving

C)- The negative ions will continue to move towards the anode and the positive ions will stop moving

D)- The positive and negative ions will start moving randomly

Correct Answer: D

Solution:

In the absence of electric field the ions in the solution move randomly due to thermal energy.

Q-2 A cell from the following which converts electrical energy into chemical energy

A) Dry cell

B) Electrochemical cell

C) Electrolytic cell

D) None of these

Correct Answer: C

Solution:

In the electrolytic cell electrical energy change into chemical energy.

Q-3 Hydrogen& oxygen fuel cells are used in spacecraft to supply

- A) Power for heat and light**
- B) Power for pressure**
- C) Oxygen**
- D) Water**

Correct Answer: B

Solution:

Fuel-cells are used to provide power and drinking water to astronauts in space programme.

Q-4 If the conductance and specific conductance of a solution is one then its cell constant would be

- A) 1**
- B) 0**
- C) 0.5**
- D) 4**

Correct Answer: A

Solution: $K/C = \text{Cell Constant}$