

THIRUVANANTHAPURAM EDUCATIONAL DISTRICT

CHEMISTRY

CW8X4

STDX

REACTIVITY SERIES AND ELECTROCHEMISTRY

ANSWER KEY

1. Electrolytic cell

2. Electrical energy is converted into Chemical energy

3. Cathode

4. Electrolytes are substances which conduct electricity in molten states or aqueous solutions and undergo chemical change

5 a) Cl^-

b) Na^+

c) Chlorine

d) Sodium

e) Anode $2\text{Cl}^- - 2e \rightarrow \text{Cl}_2$

Cathode $\text{Na}^+ + 1e \rightarrow \text{Na}$

6. The process of chemical change taking place in an electrolyte by passing electricity is known as Electrolysis

7.

Electrolytic cell	Electrochemical cell
<ul style="list-style-type: none">*Electrical energy is converted into chemical energy*Anode is positive*Cathode is negative	<ul style="list-style-type: none">*Chemical energy is converted into electrical energy*Cathode is positive*Anode is negative