

SELF EVALUATION

(A) Choose the correct answer :

- The process in which chemical change occurs on passing electricity is termed as
(a) neutralisation (b) hydrolysis
(c) electrolysis (d) ionisation
- The laws of electrolysis were enunciated first by
(a) Dalton (b) Faraday (c) Kekule (d) Avogadro
- When one coulomb of electricity is passed through an electrolytic solution, the mass deposited on the electrode is equal to
(a) equivalent weight (b) molecular weight
(c) electrochemical equivalent (d) one gram
- Faraday's laws of electrolysis are related to
(a) atomic number of the cation (b) atomic number of the anion
(c) equivalent weight of the electrolyte (d) speed of the cation
- The specific conductance of a 0.01 M solution of KCl is $0.0014 \text{ ohm}^{-1} \text{ cm}^{-1}$ at 25°C . Its equivalent conductance is
(a) $14 \text{ ohm}^{-1} \text{ cm}^2 \text{ eq}^{-1}$ (b) $140 \text{ ohm}^{-1} \text{ cm}^2 \text{ eq}^{-1}$
(c) $1.4 \text{ ohm}^{-1} \text{ cm}^2 \text{ eq}^{-1}$ (d) $0.14 \text{ ohm}^{-1} \text{ cm}^2 \text{ eq}^{-1}$
- The equivalent conductivity of CH_3COOH at 25°C is $80 \text{ ohm}^{-1} \text{ cm}^2 \text{ eq}^{-1}$ and at infinite dilution $400 \text{ ohm}^{-1} \text{ cm}^2 \text{ eq}^{-1}$. The degree of dissociation of CH_3COOH is
(a) 1 (b) 0.2 (c) 0.1 (d) 0.3
- When sodium acetate is added to acetic acid, the degree of ionisation of acetic acid
(a) increases (b) decreases
(c) does not change (d) becomes zero
- NH_4OH is a weak base because
(a) it has low vapour pressure (b) it is only partially ionised
(c) it is completely ionised (d) it has low density