

NEET ELECTROCHEMISTRY — ELECTROLYTIC CONDUCTANCE — PYQS

Max. Marks: 16
Questions: 4

Section A (MCQ) — 4 questions

Q.1 The conductivity of centimolar solution of KCl at 25°C is $0.0210 \text{ ohm}^{-1} \text{ cm}^{-1}$ and the resistance of the cell containing the solution at 25°C is 60 ohm. The value of cell constant is - [NEET (UG) 2023]

- (1) 3.28 cm^{-1} (2) 1.26 cm^{-1}
 (3) 3.34 cm^{-1} (4) 1.34 cm^{-1}

Scan or tap for the full solution



Q.2 The molar conductivity of a 0.5 mol/dm^3 solution of AgNO_3 with electrolytic conductivity of $5.76 \times 10^{-3} \text{ S cm}^{-1}$ at 298 K is [NEET 2016 (Phase 2)]

- (1) $2.88 \text{ S cm}^2/\text{mol}$ (2) $11.52 \text{ S cm}^2/\text{mol}$
 (3) $0.086 \text{ S cm}^2/\text{mol}$ (4) $28.8 \text{ S cm}^2/\text{mol}$

Scan or tap for the full solution



Q.3 Aqueous solution of which of the following compounds is the best conductor of electric current ? [AIPMT 2015]

- (1) Hydrochloric acid, HCl
 (2) Ammonia, NH_3
 (3) Fructose, $\text{C}_6\text{H}_{12}\text{O}_6$
 (4) Acetic acid, $\text{C}_2\text{H}_4\text{O}_2$

Scan or tap for the full solution



Q.4 An increase in equivalent conductance of a strong electrolyte with dilution is mainly due to [AIPMT 2010 (Prelims)]

- (1) increase in ionic mobility of ions
 (2) 100% ionisation of electrolyte at normal dilution
 (3) increase in both i.e., number of ions and ionic mobility of ions
 (4) increase in number of ions.

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4							
Ans.	2	2	1	1							