

## Yakeen NEET 2.0 2026

## Physical Chemistry

## Electrochemistry

DPP: 4

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- Q1** Which of the following statements is true for fuel cells?  
 (A) They are more efficient.  
 (B) They are free from pollution.  
 (C) They function till reactants are active.  
 (D) All of these
- Q2** Rusting of Iron is catalyzed by which of the following?  
 (A) Fe  
 (B) O<sub>2</sub>  
 (C) Zn  
 (D) H<sup>+</sup>
- Q3** In H<sub>2</sub> – O<sub>2</sub> fuel cell the reaction occurring at cathode is  
 (A)  $2\text{H}_2\text{O} + \text{O}_2 + 4\text{e}^- \rightarrow 4\text{OH}^-$   
 (B)  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}(l)$   
 (C)  $\text{H}^+ + \text{OH}^- \rightarrow \text{H}_2\text{O}$   
 (D)  $\text{H}^+ + 1\text{e}^- \rightarrow \frac{1}{2}\text{H}_2$
- Q4** Galvanization is applying a coating of  
 (A) Cr  
 (B) Cu  
 (C) Zn  
 (D) Pb
- Q5** The net fuel cells reaction is  
 (A)  $2\text{H}_2\text{O} + \text{CH}_4 \rightarrow \text{CO}_2 + 8\text{H}^+ + 8\text{e}^-$   
 (B)  $4\text{e}^- + 4\text{H}^+ + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$   
 (C)  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}(l)$   
 (D) None
- Q6** Chemical energy is converted to \_\_\_\_\_ energy by a fuel cell.  
 (A) Solar  
 (B) Electrical  
 (C) Potential  
 (D) Mechanical
- Q7** In hydrogen – oxygen fuel cell electrodes used are  
 (A) Zn  
 (B) Cu  
 (C) Pt  
 (D) None
- Q8** Which of the following converts energy from the combustion of fuel directly to the electrical energy?  
 (A) Ni – Cd Cell  
 (B) Dynamo  
 (C) Fuel cell  
 (D) Electrolytic cell
- Q9** Cathodic reaction in corrosion  
 (A)  $\text{Fe}_{(s)} \rightarrow \text{Fe}^{+2} + 2\text{e}^-$   
 (B)  $\text{O}_2 + 4\text{H}^+ + 4\text{e}^- \rightarrow 2\text{H}_2\text{O}$   
 (C)  $2\text{Fe}_{(s)} + \text{O}_2 + 4\text{H}^+ \rightarrow 2\text{Fe}^{+2} + 2\text{H}_2\text{O}$   
 (D) None
- Q10** The net reaction in corrosion  
 (A)  $2\text{Fe}_{(s)} + \text{O}_{2(g)} + 4\text{H}_{\text{aq}}^+ \rightarrow 2\text{Fe}_{\text{aq}}^{+2} + 2\text{H}_2\text{O}(l)$   
 (B)  $\text{Fe} \rightarrow \text{Fe}^{+2} + 2\text{e}^-$   
 (C)  $\text{O}_2 + 4\text{H}^+ + 4\text{e}^- \rightarrow 2\text{H}_2\text{O}(l)$   
 (D) None



## Answer Key

Q1 (D)

Q2 (D)

Q3 (A)

Q4 (C)

Q5 (C)

Q6 (B)

Q7 (C)

Q8 (C)

Q9 (B)

Q10 (A)



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