

NEET REDOX REACTIONS — TYPES OF REDOX REACTIONS — PYQS

Max. Marks: 32

Questions: 8

Section A (MCQ) — 8 questions

Q.1 Which reaction is NOT a redox reaction?

[NEET (UG) 2024]

- (1) $\text{Zn} + \text{CuSO}_4 \longrightarrow \text{ZnSO}_4 + \text{Cu}$
- (2) $2\text{KClO}_3 + \text{I}_2 \longrightarrow 2\text{KIO}_3 + \text{Cl}_2$
- (3) $\text{H}_2 + \text{Cl}_2 \longrightarrow 2\text{HCl}$
- (4) $\text{BaCl}_2 + \text{Na}_2\text{SO}_4 \longrightarrow \text{BaSO}_4 + 2\text{NaCl}$

 Scan or tap for the
full solution


Q.2 Which of the following reactions is a decomposition redox reaction?

[NEET (UG) 2022 (Phase 2)]

- (1) $\text{P}_4(\text{s}) + 3\text{OH}^-(\text{aq}) + 3\text{H}_2\text{O}(\text{l}) \longrightarrow \text{PH}_3(\text{g}) + 3\text{H}_2\text{PO}_2^-(\text{aq})$
- (2) $2\text{Pb}(\text{NO}_3)_2(\text{s}) \longrightarrow 2\text{PbO}(\text{s}) + 4\text{NO}_2(\text{g}) + \text{O}_2(\text{g})$
- (3) $\text{N}_2(\text{g}) + \text{O}_2(\text{g}) \longrightarrow 2\text{NO}(\text{g})$
- (4) $\text{Cl}_2(\text{g}) + 2\text{OH}^-(\text{aq}) \longrightarrow \text{ClO}^-(\text{aq}) + \text{Cl}^-(\text{aq}) + \text{H}_2\text{O}(\text{l})$

 Scan or tap for the
full solution


Q.3 Which of the following reactions is the metal displacement reaction? Choose the right option.

[NEET (UG) 2021]

- (1) $2\text{Pb}(\text{NO}_3)_2 \longrightarrow 2\text{PbO} + 4\text{NO}_2 + \text{O}_2 \uparrow$
- (2) $2\text{KClO}_3 \xrightarrow{\Delta} 2\text{KCl} + 3\text{O}_2$
- (3) $\text{Cr}_2\text{O}_3 + 2\text{Al} \xrightarrow{\Delta} \text{Al}_2\text{O}_3 + 2\text{Cr}$
- (4) $\text{Fe} + 2\text{HCl} \longrightarrow \text{FeCl}_2 + \text{H}_2 \uparrow$

 Scan or tap for the
full solution


Q.4 Which of the following reactions are disproportionation reaction?

- A. $2\text{Cu}^+ \longrightarrow \text{Cu}^{2+} + \text{Cu}^0$
- B. $3\text{MnO}_4^{2-} + 4\text{H}^+ \longrightarrow 2\text{MnO}_4^- + \text{MnO}_2 + 2\text{H}_2\text{O}$
- C. $2\text{KMnO}_4 \xrightarrow{\Delta} \text{K}_2\text{MnO}_4 + \text{MnO}_2 + \text{O}_2$
- D. $2\text{MnO}_4^- + 3\text{Mn}^{2+} + 2\text{H}_2\text{O} \longrightarrow 5\text{MnO}_2 + 4\text{H}^+$

 Select the **correct** option from the following :

[NEET (UG) 2019]

- (1) A, C and D
- (2) A and B only
- (3) A and D only
- (4) A, B and C

 Scan or tap for the
full solution


Q.5 Consider the change in oxidation state of bromine corresponding to different emf values as shown in the given diagram :



Then the species undergoing disproportionation is :

[NEET 2018]

- (1) BrO_4^-
- (2) BrO_3^-
- (3) Br_2
- (4) HBrO

 Scan or tap for the
full solution

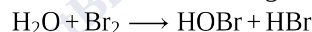

Q.6 When Cl_2 gas reacts with hot and concentrated sodium hydroxide solution, the oxidation number of chlorine changes from

[AIPMT 2012 (Prelims)]

- (1) zero to +1 and zero to -5
- (2) zero to -1 and zero to +5
- (3) zero to -1 and zero to +3
- (4) zero to +1 and zero to -3

 Scan or tap for the
full solution


Q.7 Which is the best description of the behaviour of bromine in the reaction given below?



[AIPMT 2004]

- (1) Proton acceptor only
- (2) Both oxidised and reduced
- (3) Oxidised only
- (4) Reduced only

 Scan or tap for the
full solution


Q.8 Which reaction is not feasible?

[AIPMT 2002]

- (1) $2\text{KI} + \text{Br}_2 \longrightarrow 2\text{KBr} + \text{I}_2$
- (2) $2\text{KBr} + \text{I}_2 \longrightarrow 2\text{KI} + \text{Br}_2$
- (3) $2\text{KBr} + \text{Cl}_2 \longrightarrow 2\text{KCl} + \text{Br}_2$
- (4) $2\text{H}_2\text{O} + 2\text{F}_2 \longrightarrow 4\text{HF} + \text{O}_2$

 Scan or tap for the
full solution


ANSWER KEY

Ques.	1	2	3	4	5	6	7	8			
Ans.	4	2	3	2	4	2	2	2			