

Redox Reactions in Terms of Electron Transfer Reactions MCQs with FREE PDF

1. *Loss of electrons is _____*

- a) oxidising agent
- b) oxidation
- c) reducing agent
- d) reduction

Answer: oxidation

2. *Intensity of blue colour increases gradually when _____*

- a) copper rod is dipped in silver nitrate solution
- b) silver rod is dipped in copper nitrate solution
- c) zinc rod is dipped in silver solution
- d) copper rod is dipped in zinc rod solution

Answer: copper rod is dipped in silver nitrate solution

3. *Which of the following is true as per metal activity series?*

- a) $Zn < Ag < Cu$
- b) $Zn < Cu < Ag$
- c) $Zn > Ag > Cu$
- d) $Zn > Cu > Ag$

Answer: $Zn > Cu > Ag$

4. *What is a reducing agent of the reaction $Cu^{+2} + Zn \rightarrow Cu + Zn^{+2}$?*

- a) copper
- b) zinc
- c) hydrogen
- d) oxygen

Answer: zinc

5. *The oxidation number of oxidant increases in a Redox reaction.*

- a) true
- b) false

Answer: false

6. *Which of the following is not an oxidising agent?*

- a) magnesium oxide

- b) carbon dioxide
- c) ozone
- d) sodium hydride

Answer: sodium hydride

7. *Hydrogen peroxide is a _____*

- a) oxidising agent
- b) reducing agent
- c) both reducing and oxidizing agent
- d) neither reducing nor an oxidizing agent

Answer: both reducing and oxidizing agent

8. *What is the oxidation half reaction of $\text{Cu}^{+2} + \text{Zn} \rightarrow \text{Cu} + \text{Zn}^{+2}$?*

- a) $\text{Zn} \rightarrow \text{Zn}^{+2}$
- b) $\text{Cu}^{+2} \rightarrow \text{Cu}$
- c) $\text{Cu}^{+2} \rightarrow \text{Zn}^{+2}$
- d) $\text{Zn} \rightarrow \text{Cu}$

Answer: $\text{Zn} \rightarrow \text{Zn}^{+2}$

9. *When a zinc rod is kept in a copper nitrate solution what happens?*

- a) zinc is deposited on copper
- b) copper is deposited on zinc
- c) zinc is deposited in the beaker
- d) copper is deposited in the beaker

Answer: zinc is deposited in the beaker

10. *In this reaction $\text{Cu}^{+2} + \text{Zn} \rightarrow \text{Cu} + \text{Zn}^{+2}$, what is an oxidising agent?*

- a) copper
- b) zinc
- c) hydrogen
- d) oxygen

Answer: copper