

Question 29: Which of the following reactions is an example of a redox reaction?

ANSWER: OPTION 4

The reaction $\text{XeF}_4 + \text{O}_2\text{F}_2 \rightarrow \text{XeF}_6 + \text{O}_2$ is an example of a redox reaction.

The oxidation number of Xe increases from +4(XeF_4) to +6(XeF_6). Hence, it is oxidised.

The oxidation number of oxygen decreases from +1(O_2F_2) to 0(O_2). Hence, it is reduced.