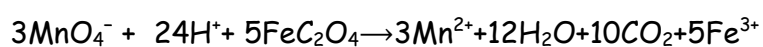


Question1

Number of moles of MnO_4^- required to oxidize one mole of ferrous oxalate completely in acidic medium will be:

Answer (option 4) 0.6

No. of moles of MnO_4^- required to oxidize one mole of FeC_2O_4 completely in acidic medium.



5 moles of FeC_2O_4 reacts with 3 moles of MnO_4^-

5 moles of $\text{FeC}_2\text{O}_4 \rightarrow 3$ moles of MnO_4^-

1mole of $\text{FeC}_2\text{O}_4 \rightarrow 5/3$ moles of MnO_4^-

\therefore The number of moles of MnO_4^- required to oxidize one mole of ferrous oxalate completely in the acidic medium will be 0.6 moles.