



The ferrous ions are further oxidised by atmospheric oxygen to ferric ions which come out as rust in the form of hydrated ferric oxide, $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$.

As the concentration of H^{+} ions is lowered *i.e.*, pH is increased, the reduction of oxygen becomes less favourable. Hence, the rate of corrosion is less in alkaline medium than in acidic medium. Thus, statement II is false.