Q. Wrought iron is the purest form of iron. Write a reaction used for the preparation of wrought iron from cast iron. How can the impurities of sulphur, silicon and phosphorus be removed from cast iron?

Ans: The reaction for the preparation of wrought iron from cast iron

$$Fe_2O_3 + 3C \longrightarrow 2Fe + 3CO$$

Limestone is added as flux and sulphur, silicon and phosphorus change to their oxides and pass into the slag.