

NCERT/CBSE CHEMISTRY CLASS 11 textbook

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Solutions/Answers to NCERT/CBSE CHEMISTRY Class 11(Class XI)textbook

CHAPTER ELEVEN

The p-Block Elements

11.21 Explain the following reactions

- (a) Silicon is heated with methyl chloride at high temperature in the Presence of copper;

When Silicon is heated with methyl chloride at high temperature in the Presence of copper a mixture of mono, di and tri methylchlorosilanes and tetra methylsilanes are formed.



- (b) Silicon dioxide is treated with hydrogen fluoride

When Silicon dioxide is treated with hydrogen fluoride, it first forms silicon tetrafluoride, which dissolves in HF to form hydrofluorosilicic acid.



Hydrofluorosilicic acid.

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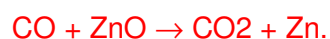
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(c) CO is heated with ZnO;

When CO is heated with ZnO, ZnO is reduced to zinc metal.



(d) Hydrated alumina is treated with aqueous NaOH solution.

When hydrated alumina is treated with aqueous NaOH solution sodium meta aluminate is formed.

