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CLASS XII

General Principles and Processes of Isolation of Elements

ONE MARK QUESTIONS

1. Out of C and CO, which is a better reducing agent at 673 K?

(2013)

TWO MARK QUESTIONS

- 1. Describe the role of
 - a) Iodine in the refining of titanium. (2010)
 - b) Collector in the froth floatation process. (2012)
- 2. Describe how the following changes are brought out:
 - a) Pig iron into steel
 - b) Zinc oxide into zinc metal. (2010)

THREE MARK QUESTIONS

- 1. Differentiate between
 - a) Calcination and roasting
 - b) Electrolytic reduction and electrolytic refining
 - c) Flux and slag
- 2. Write the chemical reactions which take place in the following operations:
 - a) Electrolytic reduction of Al₂O₃.
 - b) Isolation of Zn from zinc blende.
 - c) Mond's process for refining of Ni.
- 3. Give reasons:
 - a) Copper matte is put in silica lined convertor.
 - b) Cryolite is added to alumina during electrolytic reduction.
 - c) Pine oil is used in the froth floatation process
- 4. a) Name the method used for the refining of titanium.
 - b) What is the role of Zn in the extraction of silver?
 - c) Reduction of metal oxide to metal becomes easier if the metalobtained is in liquid state. Why?(2015)

VALUE BASED QUESTION

- 1. Sam owns sites from where copper with other metals are mined. At sites he found the low grade copper ores are available with zinc and iron scraps.
 - a) Which of the two scraps should Sam use for the reduction of leached copper and why?
 - b) Mention the value in Sam's choice.
 - c) What do you mean by blister copper?
 - d) Why is extraction of copper from copper pyrite more difficult than that from its oxide ore through reduction?
