

Thoothukudi District June Monthly Test – 2024

Class : XII Chemistry Time : 45 minutes
Date : 28.06.2024 Lesson-1. Metallurgy Marks : 25

I. Choose the correct answers. 5 x 1 =5

- The metal oxide which cannot be reduced to metal by carbon is
a) PbO b) Al₂O₃ c) ZnO d) FeO
- Which of the following metals can be used to reduce alumina?
a) Fe b) Cu c) Mg d) Zn
- Which of the following is used for concentrating ore in metallurgy?
a) Leaching b) Roasting c) Zone refining d) Mond's process
- Cinnabar -- A) Cu₂S + FeS a) I – B II – D III – A IV - C
 - Water gas --- B) BaO₂ + Mg b) I – C II – D III – B IV - A
 - Matte --- C) HgS c) I – C II – A III – D IV - B
 - Ignition mixture --- D) CO + H₂ d) I – C II – D III – A IV – B
- According to the theory of thermodynamics which one reduced easily
a) Metal sulphate b) Metal chloride c) Metal sulphide d) Metal oxide

II Answer all the questions. 3 x 2 =6

- What is the role of quick lime in the extraction of Iron from its oxide Fe₂O₃?
- Describe a method for refining nickel.
- Give the limitation of Ellingham diagram.

III. Answer all the questions. 3 x 3 = 9

- Differentiate mineral and ore.
- Explain the principle of electrolytic refining with an example.
- Give the uses of Zinc.

IV Answer all the questions. 1 x 5 =5

- Explain how gold ore is leached by cyanide process (Equation only). (3)
 - Give the basic requirement for vapour phase refining. (2)

*****ALL THE BEST*****

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