

UDAAN 2025

CHEMISTRY

DHA 05

Metals and Non-Metals

Q1 Which process is used to convert carbonate ore to metal oxide?

- (A) Roasting (B) Dehydration
(C) Calcination (D) Smouldering

Q2 Which among the following is an ore of mercury?

- (A) Calamine (B) Dolomite
(C) Limonite (D) Cinnabar

Q3 During extraction, in which among the following metal ores, no reducing agent is required for the conversion of metal oxide to metal?

- (A) *Zn* (B) *Fe*
(C) *Pb* (D) *Cu*

Q4 Reduction of metal oxide to metal using coke is done for which among the below metal?

- (A) *Al* (B) *Cu*
(C) *Hg* (D) *Zn*



Answer Key

Q1 (C)

Q2 (D)

Q3 (D)

Q4 (D)



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Hints & Solutions

Q1 Text Solution:

Carbonate ores are first converted to oxides by calcination, followed by reduction to extract the metal.

Video Solution:**Q2 Text Solution:**

its a memory based question.
cinnabar is an ore of mercury HgS from which mercury will be extracted profitably and conveniently.

Video Solution:**Q3 Text Solution:**

lower reactive metals can be extracted without using reducing agent.
heating is required to extract metals from its respective oxide.

Video Solution:**Q4 Text Solution:**

moderate reactive metals are extracted by using reducing agent.
widely used Reducing agent is C as it is cheap and easily available.
 $\text{metal Oxide} + \text{C} \rightarrow \text{metal} + \text{CO}$

Video Solution:[Android App](#)[iOS App](#)[PW Website](#)