

UDAAN 2025

CHEMISTRY

DHA 06

Metals and Non-Metals

- Q1** Statement I: All non-metals are poor conductors of heat and electricity.
Statement II: Oxides of non-metals are neutral as well as acidic while that of metals are basic as well as amphoteric in nature.
(A) Statement I is true while Statement II is false.
(B) Both statements are true.
(C) Statement I is false while Statement II is true.
(D) Both statements are false.
- Q2** Metals are refined by using different methods. Which of the following metals are refined by electrolytic refining?
(i) *Zn*
(ii) *Cu*
(iii) *Na*
(iv) *K*
(A) (i) and (ii) (B) (i) and (iii)
(C) (ii) and (iii) (D) (iii) and (iv)
- Q3** For which among the following metals, smelting can't be used to reduce the metal oxide to metal?
(A) *Zn* (B) *Fe*
(C) *Pb* (D) *Mn*
- Q4** During electrolytic refining of zinc, it gets:
(A) deposited on cathode
(B) deposited on anode
(C) deposited on cathode as well as anode
(D) remains in the solution
- Q5** Which of the following metals are obtained by electrolysis of their chlorides in molten state?
(i) *Na*
(ii) *Ca*
(iii) *Fe*
(iv) *Cu*
(A) (i) and (iv) (B) (iii) and (iv)
(C) (i) and (iii) (D) (i) and (ii)



Answer Key

Q1 (C)

Q2 (A)

Q3 (D)

Q4 (A)

Q5 (D)



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Hints & Solutions

Q1 Text Solution:

Generally, non-metals are poor conductors of heat and electricity. But graphite (purely made up of non-metal carbon) is a good conductor.

Video Solution:**Q2 Text Solution:**

metals on top of reactivity series do not require refining process. So now look for your answer.

Video Solution:**Q3 Text Solution:**

smelting is the process when C is used as reducing agent.

Mn is extracted by aluminothermy(Al is used as reducing agent).

Video Solution:**Q4 Text Solution:**

Hint: Cation moves to the cathode while anion moves to the anode. Think about this in detail to land to the correct answer.

Video Solution:**Q5 Text Solution:**

High reactive metals like sodium, potassium, calcium etc... are found in majorly chloride, oxide form in nature.

There extraction is done by electrolytic reduction of molten ore.

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