

India's Number 1 Education App

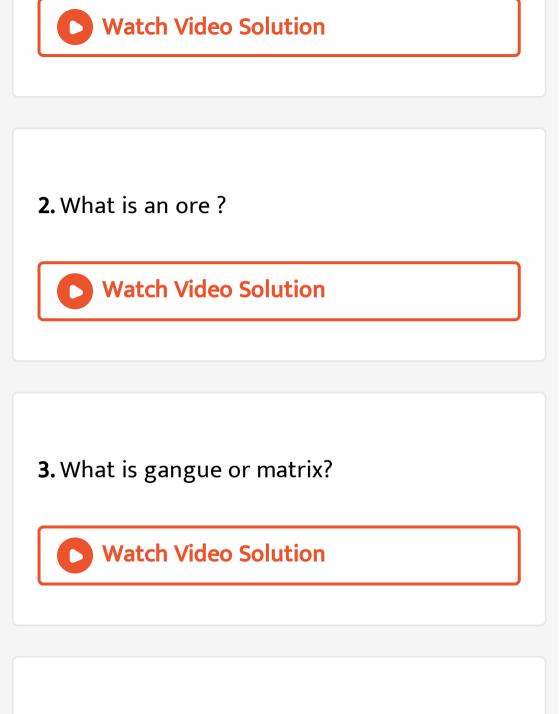
CHEMISTRY

BOOKS - JEEVITH PUBLICATIONS CHEMISTRY (KANNADA ENGLISH)

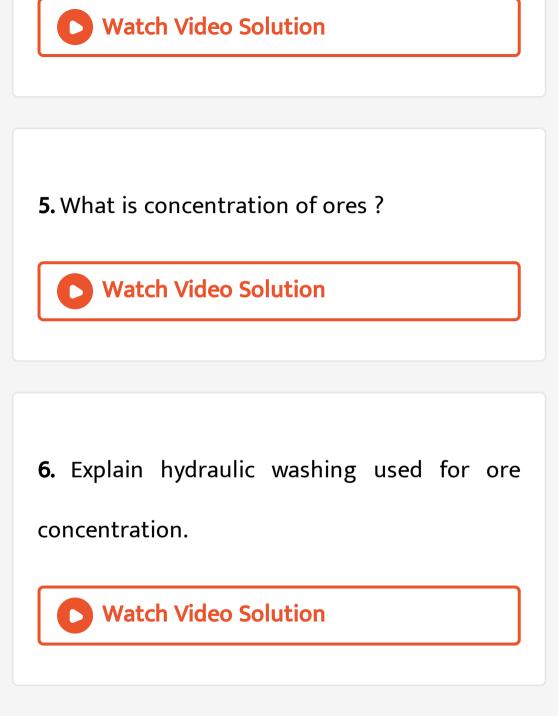
GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF ELEMENTS

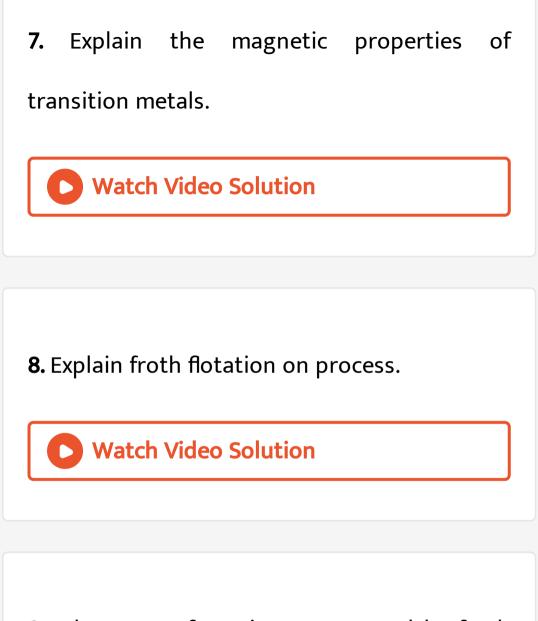
Questions

1. What is mineral ?



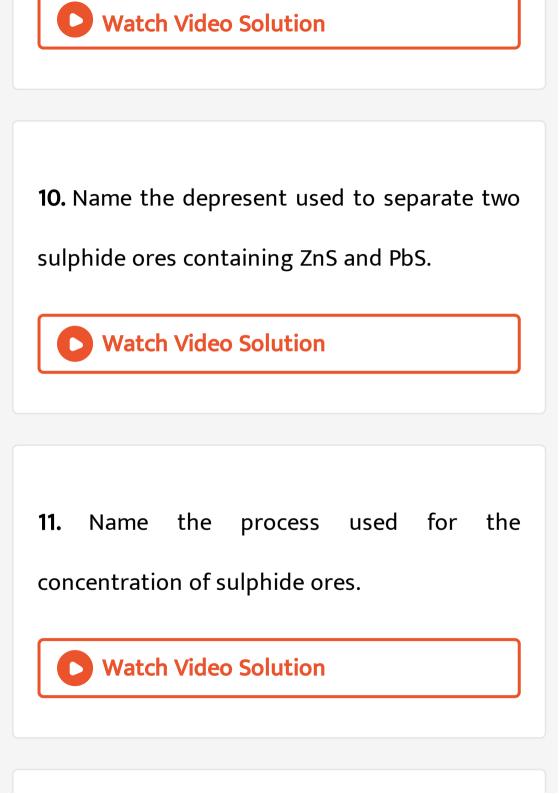
4. What is metallurgy?





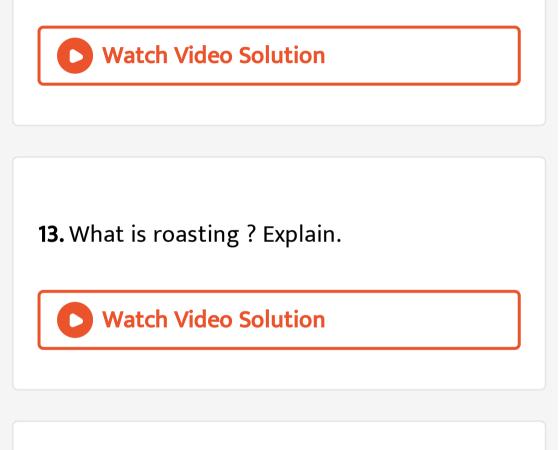
9. What type of ore is concentrated by froth

floatation ?



12. Describe the three steps involved in the

leaching of bauxite to get pure alumina.



14. What is calcination? Explain.

15. What is the role of lime stone in the extraction of iron from the concentrated hematite ore ?



16. Among carbon and carbon monoxide which

one is a better reducing agent for Fe_2O_3 ,

above 1000 K?

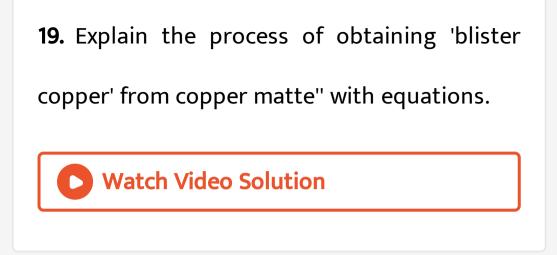
17. Among carbon and carbon monoxide which one is a better reducing agent for Fe_2O_3 , above 1000 K?



18. What is the role of lime stone in the extraction of iron from the concentrated

haematite ore ?





20. Write the composition of copper matte.



21. Name the flux used to remove iron impurity

from molten copper matte.





22. State the role of silica in the metallurgy of

Copper.



23. During the extraction of aluminium by Hall-

Heroult process at which electrode oxygen gas

is liberated.

24. Draw labelled diagram of Hall-Heroult electrolytic cell for the extraction of aluminium write anode and cathode reactions.



25. In the extraction of aluminium by electrolysis.

(i) Give the composition of the electrolyte used.

(ii) Over all reaction.

(iii) Role of cryolite.



26. During the extraction of aluminium by Hall-

Heroult process at which electrode oxygen gas

is liberated.



27. In the reaction of gold with aquaregia, oxidation state of Nitrogen changes from
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28. Write the chemical reactions involved in

the extraction gold using sodium cyanide.

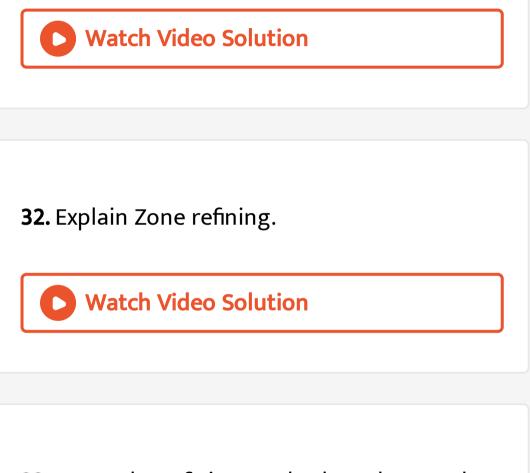
29. Name any two ores of zinc. How is zinc

extracted from zinc oxide?

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30. Name the reducing agent used in the extraction of zinc from zinc oxide. Write the chemical equation for this reaction.

31. Explain electrolytic refining.



33. Name the refining method used to produce

semiconductors.



34. Write the principle involved in the zone refining.



35. Name the method of refining of silicon.



36. Explain Mond's process for refining nickel.



37. Explain van Arkel method for refining Zirconium and Titanium.

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38. Name a metal refined by van Arkel method.