CHEMISTRY

BOOKS - JEEVITH PUBLICATIONS CHEMISTRY (KANNADA ENGLISH)

GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF ELEMENTS

Questions

1. What is mineral ?

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2. What is an ore ?

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3. What is gangue or matrix?

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4. What is metallurgy ?

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5. What is concentration of ores ?

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6. Explain hydraulic washing used for ore concentration.

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7. Explain the magnetic properties of transition metals.

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8. Explain froth flotation on process.

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9. What type of ore is concentrated by froth floatation ?

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10. Name the depresent used to separate two sulphide ores containing ZnS and PbS.

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11. Name the process used for the concentration of sulphide ores.

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12. Describe the three steps involved in the leaching of bauxite to get pure alumina.

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13. What is roasting ? Explain.

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14. What is calcination? Explain.

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

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

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

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19. Explain the process of obtaining 'blister copper' from copper matte'' with equations.

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20. Write the composition of copper matte.

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21. Name the flux used to remove iron impurity from molten copper matte.

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22. State the role of silica in the metallurgy of Copper.

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23. During the extraction of aluminium by Hall-Heroult process at which electrode oxygen gas is liberated.

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

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25. In the extraction of aluminium by electrolysis.

(i) Give the composition of the electrolyte used.

(ii) Over all reaction.

(iii) Role of cryolite.

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26. During the extraction of aluminium by Hall-Heroult process at which electrode oxygen gas is liberated.

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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.

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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.

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31. Explain electrolytic refining.

32. Explain Zone refining.

33. Name the refining method used to produce semiconductors.

34. Write the principle involved in the zone refining.

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35. Name the method of refining of silicon.

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36. Explain Mond's process for refining nickel.

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

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38. Name a metal refined by van Arkel method.

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