



CHEMISTRY

BOOKS - MODERN PUBLICATION CHEMISTRY (KANNADA ENGLISH)

GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF ELEMENTS

Multiple Choice Questions Level I

1. Most of the metals which occur in native state.

A. are very reactive

B. have low density

C. can form silicates readily

D. are not reactive.

Answer: D



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2. The impurities associated with minerals are called :

A. Slag

B. Flux

C. Gangue

D. Ore.

Answer: C



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3. The metallic of lithosphere is called

A. Siderophil

B. Lithophil

C. Atmophil

D. None of these

Answer: A

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4. The process of extracting the metal from its ore is called :

- A. Refining
- B. Concentration
- C. Leaching
- D. Metallurgy

Answer: D

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5. During smelting an additional substance is added which combines with impurities to form a fusible product which is known as :

A. mud

B. slag

C. flux

D. gangue

Answer: B



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6. Roasting results in the production of metal in the case of :

A. iron pyrites

B. galena

C. cinnabar

D. bauxite.

Answer: C



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7. The method for the purification of impure metals which is based upon the phenomenon of electrolysis is called :

A. Electrorefining

B. Hydrometallurgy

C. Poling

D. Liquation

Answer: A



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8. which of the following is not a basic flux ?

A. $CaCO_3$

B. Lime

C. SiO_2

D. CaO

Answer: C



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9. An example of halide ore is :

A. Galena

B. Bauxite

C. Cinnabar

D. Cryolite

Answer: D



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10. Carbon is used as a reducing agent in the extraction of :

A. Chromium

B. Copper

C. Silver

D. Zinc

Answer: D



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11. Coke is used in metallurgical process chiefly as :

A. flux

B. reducing agent

C. slag

D. oxidising agent

Answer: B

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12. Zone refining has been employed for preparing ultra pure samples of :

A. Cu

B. Na

C. Ge

D. Zn

Answer: C

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13. Titanium can be obtained in a state of high purity by :

A. Van Arkel method

B. poling

C. cupellation

D. electrorefining

Answer: A



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14. The sulphide ores are generally concentrated by :

- A. gravity separation
- B. froth floatation process
- C. magnetic separation
- D. liquation

Answer: B



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15. An ore of tin containing $FeCrO_4$ is concentrated by :

- A. magnetic separation
- B. froth floatation

C. electrostatic method

D. liquation

Answer: A



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16. Cyanide process is used for obtaining

A. Cr

B. Ag

C. Cu

D. Zn

Answer: B



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17. Van Arkel method is used for refining :

A. lead

B. zirconium

C. vanadium

D. zinc

Answer: B



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18. The metal always found in free state is :

A. Gold

B. Silver

C. Copper

D. Sodium

Answer: A



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19. Which of the following is not correctly matched ore and its metal ?

A. Siderite - Iron

B. Malachite - Copper

C. Pyrolusite - Manganese

D. Willemite - Lead

Answer: D



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20. The process in which lighter earthy particles are freed from the heavier particle by washing with water is called :

A. Leaching

B. Levigation

C. Liquation

D. Gravity separation

Answer: B



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21. Which of the following metals cannot be extracted by carbon reduction process ?

A. Lead

B. Aluminium

C. Mercury

D. Zinc

Answer: B



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22. In electrorefining , the impure metal is made :

A. cathode

B. anode

C. may be cathode or anode

D. None of these

Answer: B

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23. The oil used in the froth floatation method for the purification of ores is :

- A. Coconut oil
- B. Kerosene oil
- C. Mustard oil
- D. Pine oil

Answer: D

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24. Slag is :

- A. flux and coke
- B. metal and flux
- C. coke and metal oxide
- D. flux and impurities

Answer: D



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25. The most abundant metal in earth's crust is :

- A. Si

B. Fe

C. O

D. Al

Answer: D



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26. Hoop's process is used for the purification of

A. Al

B. Pb

C. Ag

D. Zn

Answer: A



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27. Which of the following is not an ore of iron ?

A. Magnetite

B. Siderite

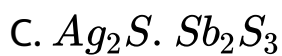
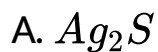
C. Cerussite

D. Limonite

Answer: C

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28. Horn silver is



D. Pure silver

Answer: B

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29. Which of the following is an ore of gold ?

A. Sylvanite

B. Anglesite

C. Sylvine

D. None of these

Answer: A



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30. In electrorefining of copper , pure copper is obtained :

A. at cathode

B. at anode

C. in the electrolyte

D. in anode mud

Answer: A



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31. Magnesium is not present in :

A. Cryolite

B. Dolomite

C. Carnollite

D. Epsom salt.

Answer: A



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32. Chlorophyll contains the metal

A. Iron

B. Cobalt

C. Magnesium

D. Manganese

Answer: C



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33. Mac Arthur Forrest process is used for the extraction ofores :

A. Silver

B. Nickel

C. Zinc

D. Platinum

Answer: A



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34. Galena is an ore of :

A. Lead

B. Gold

C. Tin

D. Mercury

Answer: A



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35. Malachite is an ore of

A. Mercury

B. Gold

C. Platinum

D. Copper

Answer: D



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36. Iron is extracted from magnetite by reduction with

:

A. C

B. Mg

C. Al

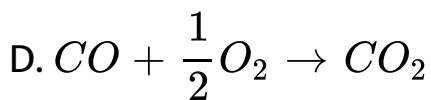
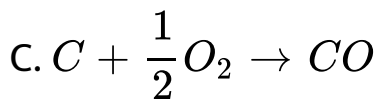
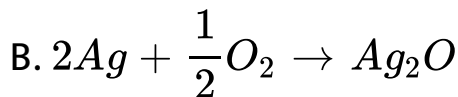
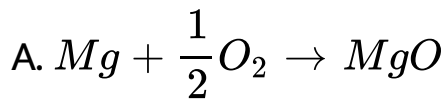
D. H_2

Answer: A



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37. ΔG° vs T plot in the Ellingham's diagram slopes downward for the reaction

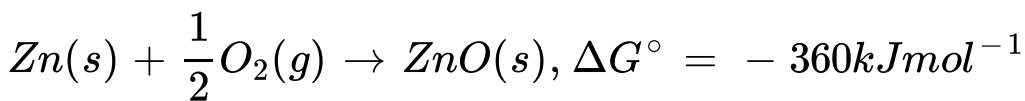


Answer: C

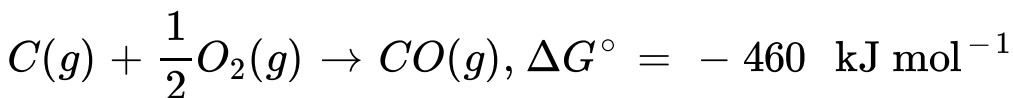
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38. Consider the following reactions at $1000^{\circ}C$:

(a)



(b)



Choose the correct statement at $1000^{\circ}C$:

A. Zinc can be oxidised by carbon monoxide

B. Zinc oxide can be reduced by graphite

C. Both statement (a) and (b) are true

D. Both statement (a) and (b) are false

Answer: B

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39. which of the following statements , about the advantage of roasting of sulphide ore before reduction is not true ?

A. The $\Delta_f G^\circ$ of the sulphide is greater than those for CS_2 and H_2S

B. The $\Delta_f G^\circ$ is negative for roasting of sulphite ore to oxide .

C. Roasting of the sulphide to the oxide is thermodynamically feasible.

D. Carbon and hydrogen are suitable reducing agents for metal sulphides.

Answer: D



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40. According to Ellingham diagram , the oxidation reaction of carbon to carbon monoxide may be used to reduce which one of the following oxides at lowest temperature ?

A. Al_2O_3

B. Cu_2O

C. MgO

D. ZnO

Answer: B



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41. The flux used in the extraction of iron from haematite in the blast furnace is :

A. Silica

B. Limestone

C. Calcium phosphate

D. PCl_5

Answer: B



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42. The most common constituent of steel is :

A. C

B. O

C. Cr

D. S

Answer: A



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43. Purest form of iron is :

- A. Cast iron
- B. Hard steel
- C. Stainless steel
- D. Wrought iron

Answer: D



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44. Which of the following alloys contains one metal same as brass ?

A. Alnico

B. Magnalium

C. Duralium

D. Invar

Answer: C



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45. Which of the following alloys does not contain copper ?

- A. Delta metal
- B. German silver
- C. Solder
- D. Phosphorus bronze.

Answer: C



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46. Blister copper is :

A. Pure copper

B. Alloy of copper

C. Copper containing some impurity

D. Ore of copper

Answer: C



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47. The ore of copper is

A. Malachite

B. Apatite

C. Dolomite

D. Haematite

Answer: D



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48. Aluminium is obtained by :

A. reducing Al_2O_3 with coke

B. electrolysing Al_2O_3 dissolved in Na_3AlF_6

C. reducing Al_2O_3 with Cr

D. heating Al_2O_3 with cryolite .

Answer: B



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49. In the metallurgy of iron , when lime stone is added to the blast furnace , the calcium ion ends up in

A. calcium carbonate

B. metallic calcium

C. gangue

D. slag

Answer: D



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50. German silver is an alloy of copper and :

A. Zn and Ni

B. Al

C. Zn

D. Sn

Answer: A



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51. Invar is an alloy of :

A. Fe and Ni

B. Fe , Cr and Ni

C. Cu and Sn

D. Cu and Ni

Answer: A



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52. Which of the following is not an ore of iron ?

A. Bauxite

B. Magnetite

C. Smaltite

D. Haematite

Answer: D



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53. High purity copper metal is obtained by :

A. Carbon reduction

B. Hydrogen reduction

C. Electrolytic reduction

D. Thermite reduction

Answer: A

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54. Silica is added to roasted copper ore during smelting in order to remove :

- A. cuprous oxide
- B. cuprous sulphide
- C. ferrous sulphide
- D. ferrous oxide.

Answer: C

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55. In the metallurgy of iron , when lime stone is added to the blast furnace , the calcium ion ends up in

- A. gangue
- B. slag
- C. metallic calcium
- D. calcium oxide

Answer: D



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Multiple Choice Questions Level II

1. During roasting of zinc, zinc blende, it converts to :

A. ZnO

B. $ZnSO_4$

C. $ZnCO_3$

D. Zn

Answer: A



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2. Which method of purification is represented by the following equations ?



- A. Poling
- B. Zone refining
- C. Cupellation
- D. Van Arkel

Answer: D

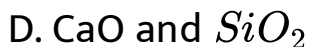


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3. An ore after levigation is found to contain basic impurities . Then flux which can be used during smelting is :



C. dil HCl

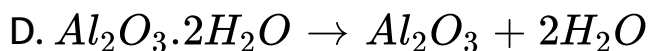
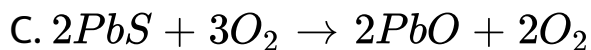
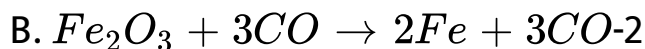
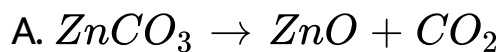


Answer: A



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4. Which of the following processes involves smelting process ?



Answer: B



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5. Van Arkel method of purification of metals involves converting the metal to a :

- A. volatile stable compound
- B. volatile unstable compound
- C. non - volatile stable compound
- D. None of these

Answer: B



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6. Roasting is generally done in case of :

A. oxide ores

B. silicate ores

C. sulphide ores

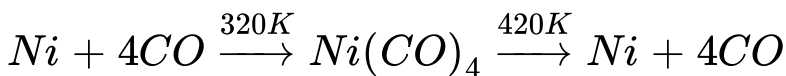
D. carbonate ores.

Answer: C



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7. The following equation depicts a method of purification of nickel by :



A. Zone refining

B. Mond's method

C. Van Arkel method

D. Cupellation

Answer: B



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8. The smelting of iron in a blast furnace involves all the steps except :

A. Fusion

B. Reduction

C. Sublimation

D. Decomposition

Answer: C



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9. Heating of pyrites in air to remove sulphur is called :

A. Calcinations

B. Fluxing

C. Smelting

D. Roasting

Answer: D

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10. Which of the following is purified by zone refining ?

A. Si

B. Ge

C. Si and Ge

D. Si and Bi

Answer: C

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11. In metallurgy , flux is a substance used to convert :

- A. infusible impurities to a fusible material
- B. minerals into silicates
- C. soluble impurities to infusible impurities.
- D. fusible impurities to infusible impurities

Answer: A



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12. Which of the following metals is obtained by self reduction process ?

A. Cr

B. Hg

C. Ni

D. Zn

Answer: B



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13. Thomas slag is :

A. tetra Calcium phosphate

B. Calcium ammonium phosphate

C. Calcium silicate

D. Tricalcium silicate

Answer: D



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14. In aluminothermic process aluminium acts as :

A. oxidising agent

B. reducing agent

C. flux

D. None of these

Answer: B



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15. Smelting is the process of reduction of metal oxide by :

A. C

B. Al

C. H

D. CO

Answer: A



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16. Which of the following ores cannot be concentrated by froth floatation process ?

A. Bauxite

B. Cinnabar

C. Galena

D. Copper pyrite

Answer: A



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17. Electrolytic reduction method is used for :

- A. highly electropositive metals
- B. highly electronegative metals
- C. metalloids
- D. lanthanides only

Answer: A



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18. Which of the following contains both Ca and Mg ?

- A. Gypsum

B. Limestone

C. Dolomite

D. Chalk

Answer: C



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19. Which of the following metals does not occur as oxide ?

A. Iron

B. Aluminium

C. Sodium

D. Copper

Answer: C



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20. Calcinations is carried out in a :

- A. Blast furnace
- B. Electric furnace
- C. Bessemer convertor
- D. Reverberatory furnace

Answer: D

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21. A metal obtained by hydrometallurgy is :

A. Ag

B. Fe

C. Na

D. Mg

Answer: A

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22. Serpeck's process is used for the extraction of :

A. Mg

B. Ni

C. Al

D. Cu

Answer: C



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23. Which of the following relations is correct ?

A. Gangue + Flux = Slag

B. Gangue + Slag = Flux

C. Slag + Flux = Gangue

D. All of correct .

Answer: A



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24. Copper pyrites , the chief ore of copper , is chemically :

A. Cu_2S

B. $CuFeS_2$

C. $CuCO_3 \cdot Cu(OH)_2$

D. Cu_2O

Answer: B



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25. Which of the following is malachite ore ?

A. Cu_2S

B. Cu_2O

C. $CuCO_3$

D. $CuCO_3 \cdot Cu(OH)_2$

Answer: D

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26. The roasting of HgS in air produces :

A. HgO

B. $HgSO_3$

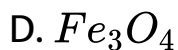
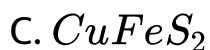
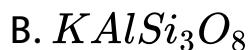
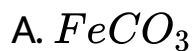
C. $HgSO_4$

D. Hg

Answer: D

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27. The formula of siderite ore is



Answer: A



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28. Copper is refined by :

A. Smelting

B. Roasting

C. Electrolytic method

D. Heating in a blast furnace

Answer: C



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29. which of the following is not a basic flux ?

A. CaO

B. SiO_2

C. $MgCO_3$

D. Fe_2O_3

Answer: B



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30. An example of halide ore is :

A. Galena

B. Bauxite

C. Cryolite

D. Cinnabar

Answer: C

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31. The sulphide ores are generally concentrated by :

- A. Electromagnetic process
- B. Distillation
- C. Gravity process
- D. Froth floatation process .

Answer: D

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32. Carbon reduction method is used in the extraction of:

A. Sn

B. Zn

C. Pb

D. All

Answer: D



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33. The process of removal of impurities from a crude metal is called :

A. Refining

B. Roasting

C. Calcinations

D. Concentration

Answer: A



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34. The common depressant used in froth floatation process for separation of ZnS and PbS is :

- A. Eucalyptus oil
- B. Sodium sulphide
- C. Sodium cyanide
- D. Lime

Answer: C



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35. When copper ore is mixed with silica in a reverberatory furnace copper matte is produced. The copper matte contains

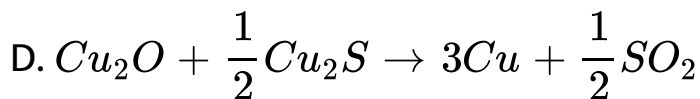
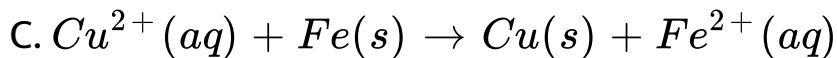
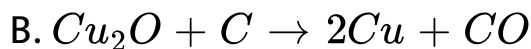
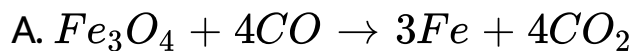
- A. sulphides of copper (II) and iron (II)
- B. sulphides of copper (II) and iron (III)
- C. sulphides of copper (I) and iron (II)
- D. sulphides of copper (I) and iron (III)

Answer: C



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36. Which of the following reactions is an example of auto reduction ?



Answer: D



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37. In the extraction of copper from its sulphide ore, the metal is formed by the reduction of Cu_2O with

A. FeS

B. CO

C. Cu_2S

D. SO_2

Answer: C



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38. Electrolytic refining is used to purify which of the following metals?

A. Cu and Zn

B. Ge and Si

C. Zr and Ti

D. Zn and Hg

Answer: A



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39. Extraction of gold and silver involves leaching the metal with CN^- ion. The metal is recovered by

A. displacement of metal by some other metal from the complex ion.

B. roasting of metal complex.

C. calcinations followed by roasting

D. thermal decomposition of metal complex.

Answer: A



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40. Coke is used in metallurgical process process chiefly as

A. flux

B. reducing agent

C. slag

D. oxidising agent

Answer: B



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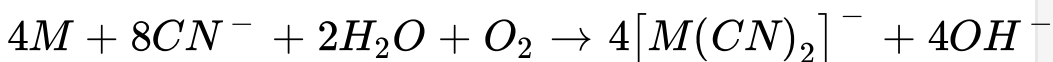
41. Which of the following statement is not true ?

- A. The Ellingham diagram show the plots of ΔG Vs T.
- B. In froth floatation process depressants are added to enhance the formation of froth.
- C. Extraction of zinc oxide is done by coke
- D. CO is more effective reducing agent below 983K.

Answer: B

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42. In the equation ,



, the metal M is

A. Copper

B. Iron

C. Gold

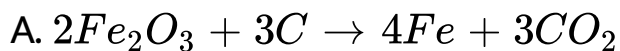
D. Zinc

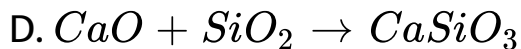
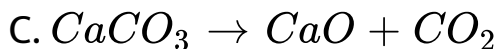
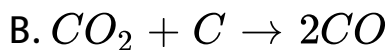
Answer: C



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43. Identify the reaction that does not take place in a blast furnace.





Answer: C



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44. The temperature of the slag zone in the metallurgy of iron using blast furnace is

A. $1500 - 1600^\circ C$

B. $400 - 700^\circ C$

C. $800 - 1000^\circ C$

D. $1200 - 1500^{\circ}C$

Answer: C



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45. Which of the following methods is used for obtaining aluminium metal ?

A. Electrolysing pure Al_2O_3 and cryolite

B. By heating Al_2O_3 with carbon

C. By heating Al_2O_3 in Muffle furnace

D. By a process called pyrometallurgy

Answer: A



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46. The metal used to recover copper from a solution of copper sulphate is

A. Na

B. Fe

C. Hg

D. Ag

Answer: B



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47. Which of the following pair of metals is purified by Van Arkel method ?

A. Ga and In

B. Zr and Ti

C. Ag and Au

D. Ni and Fe

Answer: B



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48. Duralumin is used in aircraft industry for its light weight and high strength . It is an alloy of

A. Al , Cu, Mg and Mn

B. Al , Zn , Fe and Sn

C. Al , Ti, Ce and Fe

D. Al , Fe , Zn and Sn

Answer: A



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49. Which one of the following is true in electrolytic refining ?

A. Impure metal is made cathode

B. Impure metal is made anode

C. Impure metal is made cathode and pure metal as anode

D. Both electrodes must be of pure metal

Answer: B



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50. In the extraction of copper from its sulphide ore, the metal is formed by the reduction of Cu_2O with

A. copper (I) sulphide (Cu_2S)

B. sulphur dioxide (SO_2)

C. iron sulphide (FeS)

D. carbon monoxide (CO)

Answer: A



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51. The reduction of zinc oxide with coke occurs at temperature

A. greater than that for for CuO

B. less than that for CuO

C. less than that for Ag_2O

D. equal to that for CuO

Answer: A



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52. Identify the alloy containing a non - metal as a constituent in it.

A. Invar

B. Steel

C. Bell metal

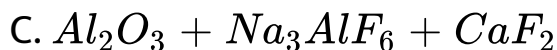
D. Bronze

Answer: B



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53. Aluminium is extracted from alumina (Al_2O_3) by electrolysis of a molten mixture of



Answer: C



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54. The chemical process in the production of steel from haematite ore involves :

A. oxidation

B. reduction

C. reduction followed by oxidation

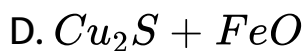
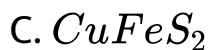
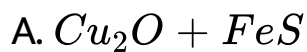
D. oxidation followed by reduction

Answer: C



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55. The chemical composition of slag formed during the smelting process in the extraction of copper is :



Answer: B



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56. The methods chiefly used for the extraction of lead and tin from their ores are respectively

- A. self - reduction and carbon reduction
- B. self - reduction and electrolytic reduction
- C. carbon reduction and self - reduction
- D. cyanide process and carbon - reduction

Answer: C



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57. Which one contains both iron and copper ?

A. Cuprite

B. Chalcocite

C. Chalcopyrite

D. Malachite

Answer: C



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58. During the process of electrolytic refining of copper some metals present as impurity settle as 'anode mud'

. These are :

A. Sn and Ag

B. Pb and Zn

C. Ag and Au

D. Fe and Ni

Answer: C



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59. Extraction of zinc from zinc blende is achieved by :

A. Electrolytic reduction

B. roasting followed by reduction with carbon

C. roasting followed by reduction with another metal

D. roasting followed by self reduction

Answer: B



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60. Which one contains both iron and copper ?

A. Cuprite

B. Chalcocite

C. Copper pyrite

D. Malachite

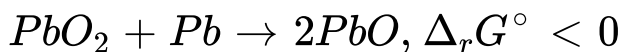
Answer: C



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Multiple Choice Questions Level Iii

1. In view of the signs of $\Delta_r G^\circ$ for the following reactions :



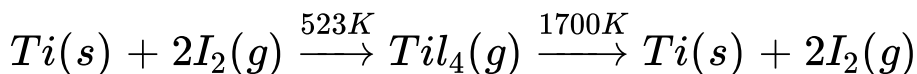
Which oxidation states are more characteristic for lead and tin ?

- A. For lead +2 for tin +2
- B. For lead +4, for tin +4
- C. For lead +2, for tin +4
- D. For lead +4 ,for tin +2

Answer: C

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2. Which method of purification is represented by the following equations ?



A. Van Arkel

B. Zone refining

C. Cupellation

D. Poling

Answer: A



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3. In the context of the Hall - Heroult process for the extraction of Al, which of the following statement is false ?

A. CO and CO_2 are produced in this process

B. Al_2O_3 is mixed with CaF_2 which lowers the melting point of the mixture and brings conductivity

C. Al^{3+} is reduced at the cathode to form Al

D. Na_3AlF_6 serves as the electrolyte

Answer: D



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Recent Examination Questions

1. The ore that is concentrated by Froth Floatation process is :

A. Cinnabar

B. Bauxite

C. Malachite

D. Zincite

Answer: A



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2. The temperature of the slag zone in the metallurgy of iron using blast furnace is

A. $1500 - 1600^{\circ}C$

B. $400 - 700^{\circ}C$

C. $800 - 1000^{\circ}C$

D. $1200 - 1500^{\circ}C$

Answer: C



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3. In the electrolytic refining of zinc.....

- A. graphite is at the anode
- B. the impure metal is at the cathode
- C. the metal ion gets reduced at the anode
- D. acidified zinc sulphate is the electrolyte .

Answer: D

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4. From the Ellingham graphs on carbon , which of the following statements is false ?

- A. CO_2 is more stable CO at less than 983 K
- B. CO reduces Fe_2O_3 to Fe less than 983 K

C. CO is less stable than CO_2 at more than 983 K

D. CO reduces Fe_2O_3 to Fe in the reduction zone of

Blast furnace.

Answer: C



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5. The ore that is concentrated by Froth Floatation process is :

A. Chalcopyrites

B. Crylite

C. Cuprite

D. Calamine

Answer: A



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6. Function of potassium ethylxanthate in froth floatation process is to make the ore

A. attracted towards water

B. water repellent

C. light

D. heavier

Answer: B



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7. When limestone is heated , CO_2 is given off. The metallurgical operation is :

- A. Smelting
- B. reduction
- C. calcinations
- D. roasting

Answer: C



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8. The process of zone refining is used in the purifications of

A. Al

B. Ge

C. Cu

D. Ag

Answer: B



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9. The statement that is NOT correct is

A. a furnace lined with Haematite is used to convert cast iron to wrought iron.

B. collectors enhance the wettability of mineral particles during froth floatation

C. in vapour phase refining , metal should form a volatile compound.

D. copper from its low grade ores is extracted by hydrometallurgy.

Answer: B



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10. Copper is extracted from pyrites by heating in a Bessemer converter. The method is based on the principle that

- A. Copper has less affinity for oxygen than sulphur at high temperature
- B. Copper has more affinity for oxygen than sulphur at high temperature
- C. Sulphur has less affinity for oxygen at high temperature

D. Iron has less affinity for oxygen than sulphur at high temperature

Answer: B



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11. Cryolite is

A. Na_3AlF_6 and is used in the electrolysis of alumina for lowering the melting point and increasing the conductivity of alumina.

B. Na_3AlF_6 and is used in the electrolysis of alumina for decreasing electrical conductivity

C. Na_3AlF_6 and is used in the electrolysis of alumina

D. Na_3AlF_6 and is used in the electrolysis of alumina for lowering the melting point of alumina only

Answer: A



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12. The magnetic ore is :

A. Fe_3O_4

B. Fe_2O_3

C. $\text{Fe}(\text{OH})_3$

D. FeCO_3

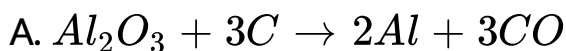
Answer: D

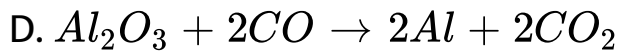
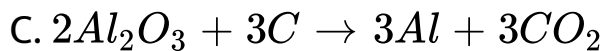
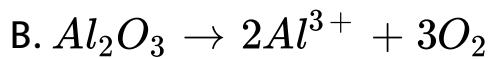


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13. In the metallurgy of aluminium when the fused matrix is electrolyzed , the overall reduction reaction is

:





Answer: C



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