



CHEMISTRY

BOOKS - MHTCET PREVIOUS YEAR PAPERS AND PRACTICE PAPERS

GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF ELEMENTS

Exercise 1

1. The ore of aluminium is

A. carnallite

B. malachite

C. galena

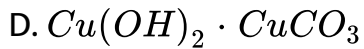
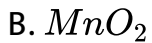
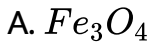
D. bauxite

Answer: D



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2. The formula of malachite ore is



Answer: D



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3. Azurite is an ore of

- A. gold
- B. silver
- C. copper
- D. zinc

Answer: C



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4. Which of the following is an oxide ore ?

- A. Malachite
- B. Haematite
- C. Copper glance

D. Zinc blende

Answer: B



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5. Which of the following ores does not contain iron ?

A. Limonite

B. Siderite

C. Carnallite

D. Chalcopyrites

Answer: C



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6. Which one of the following does not occurs as sulphide ore

A. Zn

B. Cr

C. Ag

D. Fe

Answer: B



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7. Calamine is an ore of

A. zinc

B. aluminium

C. iron

D. copper

Answer: A

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8. Cerussite is an ore of

A. Na

B. Cu

C. Pb

D. Fe

Answer: C

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9. The second most abundant metal in earth's crust is

A. aluminium

B. zinc

C. iron

D. copper

Answer: C



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10. Chalcopyrites is an ore of

A. gallium

B. copper

C. calcium

D. magnesium

Answer: B

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11. Which is not a mineral of aluminium?

A. Corundum

B. Anhydrite

C. Diaspore

D. Bauxite

Answer: B

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12. Which of the following is a carbonate ore?

A. Pyrolusite

B. Diaspore

C. Cassiterite

D. Malachite

Answer: D



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13. Shalerite and siderite are the ores of the metals

A. Cu and Fe

B. Zn and Cu

C. Zn and Fe

D. Zn and Al

Answer: C

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14. Which ore contains both iron and copper?

A. Cuprite

B. Chalcocite

C. Chalcopyrite

D. Malachite

Answer: C

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15. Which of the following metal is purified by Mond carbonyl method ?

A. Ti

B. Zr

C. Ge

D. Ni

Answer: D



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16. Which among the following metals is refined by electrolytic method ?

A. aluminium

B. Bismuth

C. Tin

D. Lead

Answer: A



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17. Froth floatation process is used for the metallurgy of

A. chloride ores

B. amalgams

C. oxide ores

D. sulphide ores

Answer: D



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18. The process of converting hydrated alumina into anhydrous alumina is called

- A. roasting
- B. smelting
- C. dressing
- D. calcination

Answer: D

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19. Autoreduction process is used in the extraction of

- A. Cu and Hg

B. Zn and Hg

C. Cu and Al

D. Fe and Pb

Answer: A

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20. $NaCN$ is sometimes added in the froth flotation process as a depressant when ZnS and PbS minerals are expected because :

A. ZnS forms soluble complex $Na_2[Zn(CN)_4]$ while PbS forms froth

B. $Pb(CN)_2$ is precipitated while no effect on ZnS

C. PbS forms soluble complex $Na_2[Pb(CN)_4]$ while ZnS forms froth

D. NaCN is never added in froth floatation process

Answer: A

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21. Which of the following pairs of metals is purified by van Arkel method?

A. Ni and Fe

B. Ga and In

C. Zr and Ti

D. Ag and Au

Answer: C



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22. Gravity separation process may be used for the concentration of:

- A. calamine
- B. haematite
- C. Chalcopyrite
- D. bauxite

Answer: B



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23. In zone-refining method the molten zone

- A. contains impurities
- B. contains purified metal only
- C. contains more impurity than the original metal
- D. moves to either side

Answer: C



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24. The ore that is concentrated by froth floatation process is

- A. cinnabar
- B. bauxite
- C. malachite

D. zincite

Answer: A

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25. The incorrect statement among the following is

A. Hydrogen is used to reduce NiO

B. Zirconium is refined by van-Arkel method

C. The sulphide ore galena is concentrated by froth floatation

D. In the metallurgy of iron , the flux used in SiO_2

Answer: D

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26. The method not used in metallurgy to refine impure metal is :

- A. Mond's process
- B. van-Arkel process
- C. amalgamation process
- D. liquation

Answer: C



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27. The metallurgical process in which a metal is obtained in a fused state is called

- A. smelting
- B. roasting

C. calcination

D. froth floatation

Answer: A



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28. In the alumino-thermite process, Al acts as :

A. flux

B. oxidising agent

C. reducing agent

D. solder

Answer: C



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29. Copper pyrites ore is concentrated by

- A. electromagnetic method
- B. gravity method
- C. froth floatation process
- D. All of the above

Answer: A



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30. Which of the following sulphides when heated strongly in air gives the corresponding metal?

- A. Cu_2S

B. CuS

C. Fe_2S_3

D. HgS

Answer: D



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31. Which of the following metal can not be extracted by smelting process

A. Zn

B. Al

C. Pb

D. Fe

Answer: B



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32. In electrorefining of copper, some gold is deposited as

- A. anode mud
- B. cathode mud
- C. cathode
- D. electrolyte

Answer: A



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33. Aluminothermic process is used for metallurgy of

A. Pb

B. Ag

C. Al

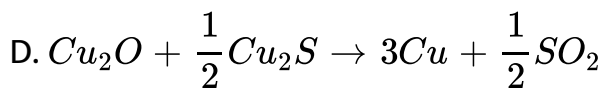
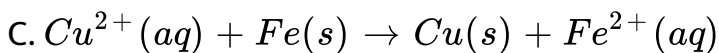
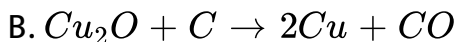
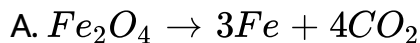
D. None of these

Answer: D



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34. Which one of the following reactions is an example of auto-reduction?



Answer: D

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35. Which of the following metal is obtained by electrolytic reduction process ?

A. Fe

B. Cu

C. Ag

D. Al

Answer: D

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36. Chemical used as a depressant in separating ZnS from PbS in froth-floatation process , is

A. NaCN

B. NaCl

C. $BaCl_2$

D. $ZnSO_4$

Answer: A



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37. Which of the following ores is not concentrated by froth floatation process?

A. Pyrolusite

B. Pentlandite

C. Zinc blende

D. Copper pyrites

Answer: A



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38. How do we separate two sulphide ores by froth floatation method?

A. By adding pine oil

B. By adding sodium cyanide

C. By adding foaming agent

D. By passing air

Answer: B



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39. Froth floatation process for the concentration of ores is an illustration of the practical application of _____.

- A. adsorption
- B. sedimentation
- C. coagulation
- D. absorption

Answer: A



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40. The method of concentrating the ore which makes use of the difference in density between ore and impurities is called

- A. leaching
- B. liquation
- C. levigation
- D. magnetic separation

Answer: C



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41. In froth floatation method , the role of collectors is

- A. to enhance non-wettability of the mineral particles
- B. to enhance wettability of the mineral particles

C. Both (a) and (b)

D. None of the above

Answer: A



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42. In the froth floatation process for the purification of minerals the particles float because

A. they are insoluble

B. their surface is preferentially wetted by oil

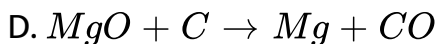
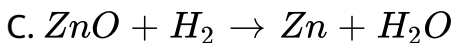
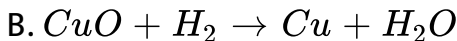
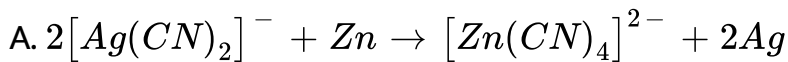
C. they are light

D. they bear an electrostatic charge

Answer: B



43. Select the incorrect reduction process.

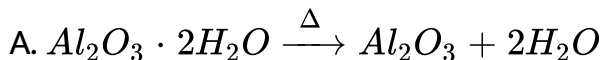


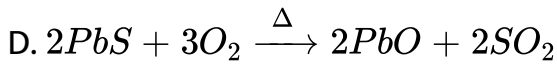
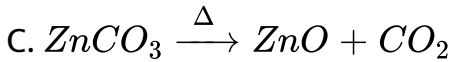
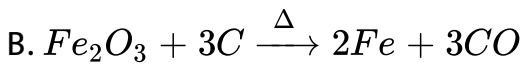
Answer: C



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44. Which of the following process involves smelting ?





Answer: B



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45. Magnetite is concentrated by

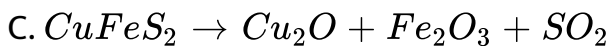
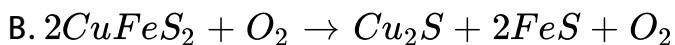
- A. gravity method
- B. froth floatation process
- C. electromagnetic method
- D. All of the above

Answer: C



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46. The roasting reaction in the metallurgy of Cu is



D. None of the above

Answer: B



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47. Bauxite ore is concentrated by

A. froth floatation

B. electromagnetic separation

C. chemical separation

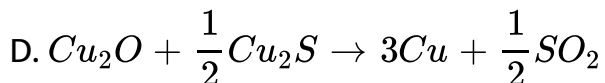
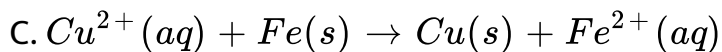
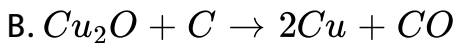
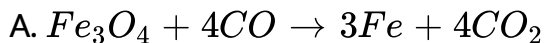
D. hydraulic separation

Answer: C



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48. Which one of the following reactions is an example of auto-reduction?



Answer: D

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49. In order to refine blister copper , it melts in a furnace and is stirred with green logs of wood . The purpose is

- A. to expel the dissolved gases in blister copper
- B. to bring the impurities to surface and oxidise them
- C. to increase the carbon content of copper
- D. to reduce the metallic oxide impurities with hydrocarbon gases liberated from the wood

Answer: D

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

A. FeS

B. CO

C. Cu_2S

D. SO_2

Answer: C



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51. During the process of electrolytic refining of copper some metals present as impurity settle as anode mud. These are

A. Fe and Ni

B. Ag and Au

C. Pb and Zn

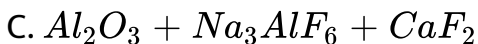
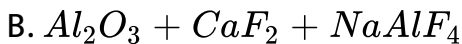
D. Se and Ag

Answer: B



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52. Aluminium is extracted from Alumina (Al_2O_3) by electrolysis of a molten mixture of



Answer: C



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53. which of the following elements is present as the impurity to the maximum extent in the pig iron?

- A. Phosphorus
- B. Manganese
- C. Carbon
- D. Silicon

Answer: C



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54. In the electrolytic refining of zinc,

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

Answer: B



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55. Purest form of commercial iron is :

- A. Cast iron
- B. Steel
- C. Wrought iron

D. Pig iron

Answer: C

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56. One of the following metals forms a volatile carbonyl compound and this property is taken advantage of its extraction.

This metal is

A. iron

B. nickel

C. cobalt

D. tungsten

Answer: B

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

- A. $1500 - 1600^{\circ}C$
- B. $400 - 700C^{\circ}$
- C. $800 - 1000^{\circ}C$
- D. $1200 - 1500^{\circ}C$

Answer: C



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58. Which one of the following metals is extracted by a carbon reduction process ?

A. Sodium

B. Iron

C. Aluminium

D. Magnesium

Answer: B



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59. Blister copper is

A. impure Cu

B. Cu alloy

C. pure Cu

D. Cu having 1% impurity

Answer: D



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60. Which one of the following metal , is extraced on smelting of its ore in blast furnance ?

A. iron

B. Sodium

C. Potassium

D. magnesium

Answer: A



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61. Which of the following metal can be obtained by the electrolysis of the aqueous solution of their salts ?

A. Cu

B. Na

C. Mg

D. K

Answer: A



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62. The percentage of carbon in cast iron is

A. 5 – 10

B. 0.250 – 2.5

C. 2.5 – 4.5

D. 0.12 – 0.2

Answer: C



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63. In the electrolysis of alumina , cryolite and CaF_2 are added to

A. increase the emf of cell

B. decrease the emf of cell

C. decrease the melting point

D. Both (b) and (c)

Answer: C



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64. The method used for prepare steel is

- A. Bessemer's convertor method
- B. Siemen's Martin process
- C. Siemen's electric arc furnance
- D. All of the above

Answer: D



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65. In the extractionof iron, slag is produced. Slag is

- A. CO
- B. $FeSiO_3$

C. $MgSiO_3$

D. $CaSiO_3$

Answer: B



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66. In electrorefining of copper, some gold is deposited as

A. cathode

B. electrode

C. cathode mud

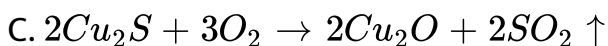
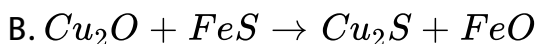
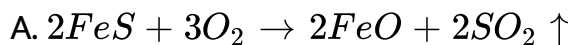
D. anode mud

Answer: D



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67. Identify the reaction that does not take place during the smelting process of copper extraction



Answer: A



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68. When copper ore is mixed with silica in a reverberatory furnace, copper matte is produced. The copper matter contains _____

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

Answer: C



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69. 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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70. Electrolitic 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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71. Which of the following metals is extracted by the electrometallurgical method?

A. Cu

B. Fe

C. Na

D. Ag

Answer: B



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72. In the metallurgy of Fe, when $CaCO_3$ is added to blast furnace, calcium ion appears as

A. slag

B. gangue

C. CaO

D. metallic Ca

Answer: A



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73. Haematite is reduced in a blast furnace by

A. CO

B. CO_2

C. SO_2

D. C

Answer: A



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74. In blast furnace, the highest temperature is in

- A. zone of fusion
- B. zone of combustion
- C. zone of slag combustion
- D. zone of reduction

Answer: B



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75. In the modern blast furnances, the charge consists of a mixture of

- A. iron pyrites + bituminous coal
- B. hydrated iron oxides + dolomite + coke
- C. calcined iron oxide + limestone + coke
- D. calcined iron oxide + lime + anthracite coal

Answer: A



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76. The common method of extraction of metals from oxide ores is

- A. reduction of Al
- B. reduction with H
- C. reduction with C
- D. None of these

Answer: C

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77. What is the role of graphite rod in the electrometallurgy of aluminium?

- A. It acts as anode
- B. It acts as cathode
- C. It acts as oxidising agent
- D. Both (a) and (c)

Answer: A

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Exercise 2

1. Thermite is a mixture of :

- A. Fe powder and Al_2O_3
- B. Al powder and Fe_2O_3
- C. Cu powder and Fe_2O_3
- D. Zn powder and Cr_2O_3

Answer: B



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2. Which of the following statement is incorrect ?

- A. Electrostatic separation is used for lead sulphide

B. Galena is an ore of Pb

C. Ore is heated strongly above its melting point in roasting

D. Silica acts as acidic flux

Answer: C



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3. Sulphide ores of metals are usually concentrated by both floatation process. Which of the following sulphide ores offers an exception and is concentrated by chemical leaching ?

A. Argentite

B. Galena

C. Copper pyrite

D. Sphalerite

Answer: D



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4. The fluorspar (CaF_2) is added in small quantities in the electrolytic reduction of alumina dissolved in fused cryolite (Na_3AlF_6). The role of fluorspar is/are

I. to decrease the rate of oxidation of carbon at anode .

II. to act as a catalyst .

III. to lower the temperature of the melt .

IV. to make the fused mixture very conducting .

Choose the correct statement(s).

A. I and II

B. II and III

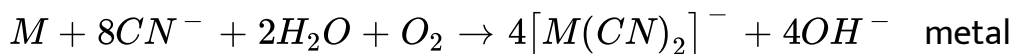
C. I and IV

D. III and IV

Answer: A

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5. In the equation:



M is:

A. Copper

B. Iron

C. Gold

D. Zinc

Answer: C

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6. Match the following .



The correct answer is

- A. A-IV, B-V, C-II, D-I
- B. A-IV, B-V, C-I, D-II
- C. A-IV, B-I, C-III, D-II
- D. A-II, B-V, C-IV, D-I

Answer: B



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7. Bell metal is an alloy of

A. Cu(80%), Zn(20%)

B. Cu(60%), Ni(40%)

C. Cu(90%), Sn(10%)

D. Cu(80%), Sn(20%)

Answer: D



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8. Specific gravity of slag is

A. always less than molten metal

B. always higher than molten metal

C. same as that of molten metal

D. None of the above

Answer: A



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9. Match the following Columns and choose the correct option from the codes given below.



A. A-2,B-4,C-1,D-3

B. A-3,B-4,C-2,D-1

C. A-1,B-2,C-3,D-4

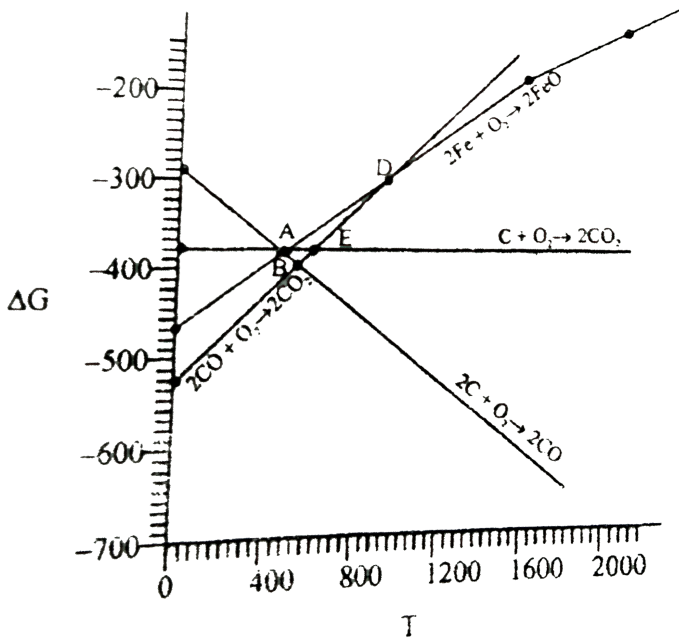
D. A-4,B-1,C-3,D-2

Answer: A



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10. For the reduction of FeO at the temperature corresponding to point D, which of the following statements is correct?



- A. ΔG value for the overall reduction reaction with carbon monoxide is zero
- B. ΔG value for the overall reduction reaction with a mixture of 1 mole carbon and 1 mole oxygen is positive

C. ΔG value for the overall reduction reaction with a mixture of 2 mole carbon and 1 mole oxygen is positive

D. ΔG value for the overall reduction reaction with carbon monoxide is negative

Answer: A

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11. Which of the following statement(s) is/are incorrect ?

I. Zinc can be extracted by self-reduction.

II. A depressant prevents certain type of particle from coming in the froth .

III. Copper matte contains ZnS and Cu_2S .

IV. The solidified copper obtained from reverberatory furnace has blistered appearance due to evolution of SO_2 during the

extraction .

The option containing incorrect statements is

A. I and II

B. II and IV

C. I and IV

D. II and III

Answer: C



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12. Match Column I with Column II and select the correct answer using the codes given below the list .



A. 1-B, 2-A,3-C,4-D

B. 1-B,2-C,3-A,4-B

C. 1-C,2-A,3-B,4-D

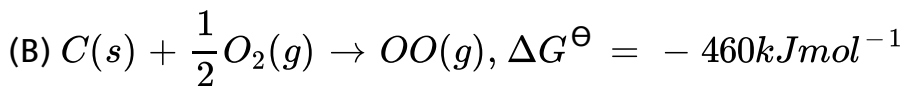
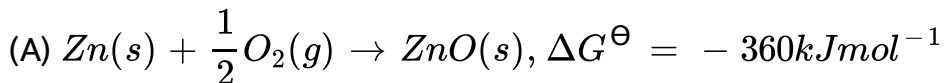
D. 1-C,2-D,3-A,4-B

Answer: D



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13. Consider the following reaction at $1000^{\circ}C$



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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14. In *Mac* Arthur Forest method, silver is extracted from the solution of $Na[Ag(CN)_2]$ by the use of

A. Fe

B. Mg

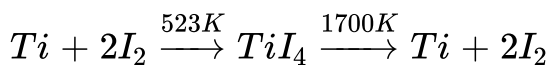
C. Cu

D. Zn

Answer: D

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15. Which method of purification is represented by the following equations



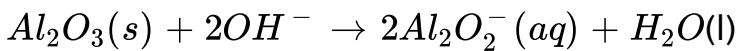
- A. Cupellation
- B. Poling
- C. Electrolytic refining
- D. van-Arkel process

Answer: D



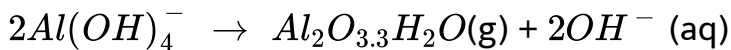
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16. In aluminium extraction by Bayer process, alumina is extracted from bauxite by sodium hydroxide at high temperatures and pressures



Solid impurities such as Fe_2O_3 and SiO_2 are removed and then

$Al(OH)_4^-$ is reprecipitated



In the industrial world :

- A. carbon dioxide is added to precipitate the alumina
- B. temperature and pressure are dropped and the supersaturated solution seeded
- C. Both (a) and (b) are practised
- D. the water is evaporated

Answer: C



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17. Which of the following statement is incorrect?

- A. Pure aluminium oxide is obtained by heating aluminium hydroxide
- B. Cryolite lowers down the melting temperature of bauxite in the electrolytic cell for extraction of aluminium
- C. Carbonate ores are converted into oxides by roasting the ore in air
- D. Mercury cannot be produced by roasting the ore of cinnabar in air

Answer: C



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18. Match the following Columns and choose the correct option from the codes given below.



A. A-4,B-3,C-1,D-2

B. A-3, B-4,C-2,D-1

C. A-2,B-1,C-3,D-4

D. A-1,B-2,C-4,D-3

Answer: B



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19. Aluminothermic process is used for the extraction of metals, whose oxides are

- A. easily reduced by carbon
- B. not easily reduced by hydrogen
- C. fusible
- D. strongly basic

Answer: A

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20. Match the column I and column II and pick the correct matching from the codes given below.



- A. A-1 ,B-3,C-4,D-5,E-2
- B. A-1,B-3,C-4,D-2,E-5
- C. A-4,B-5,C-2,D-1,E-3

D. A-1,B-3,C-5,D-2,E-4

Answer: D



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21. To obtain pure germanium which of the following methods of refining is preferred?

A. Liquation

B. Zone- refining

C. Electrolytic method

D. Poling

Answer: B



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22. Which one of the following statement is false ?

- A. During roasting , moisture is removed from the ore
- B. The ore is free from almost all non-metallic impurities
- C. Calcination of ore is carried out in the absence of any blast of air
- D. The concentrated zinc blende is subjected to calcination during the extraction by pyrometallurgy

Answer: D



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23. Carbon cannot reduce Fe_2O_3 to Fe at a temperature below 983K because.

- A. free energy change for the formation of CO is more negative than that of Fe_2O_3
- B. CO is thermodynamically more stable than Fe_2O_3
- C. carbon has higher affinity towards oxygen than iron
- D. iron has higher affinity towards oxygen than carbon

Answer: D

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24. Cassiterite is an ore of I... and is concentrated by II.... method .

Here ,I and II refer to

- A. II \rightarrow levigation , I \rightarrow Sn
- B. II \rightarrow froth floatation , I \rightarrow Ni
- C. II \rightarrow electromagnetic separation , I \rightarrow Sn

D. II \rightarrow liquefaction , I \rightarrow Ni

Answer: C

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25. In the isolation of metals, reaction proces susually results in

A. metal sulphide

B. metal carbonate

C. metal hydroxide

D. metal oxide

Answer: D

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26. Gravity separation method is based upon:

- A. difference in densities of ore particles and impurities
- B. difference in chemical properties of ore particles and impurities
- C. preferential washing of ores and gangue particles
- D. None of the above

Answer: A



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27. Hydro-metallurgical process of extraction of metals is based on

- A. complex formation

B. hydrolysis

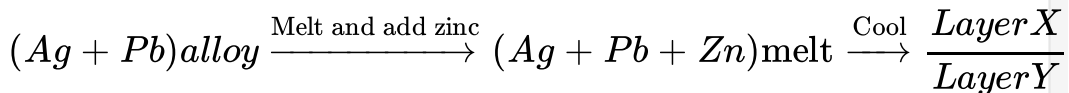
C. dehydration

D. dehydrogenation

Answer: A

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28.



Select correct statements based on above scheme:

A. Layer X contains Zn and Ag

B. Layer Y contains Pb and Ag but amount of silver in this

layer is smaller than in layer X

C. X and Y are immiscible layer

D. All of the above are correct statements .

Answer: D

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29. Purest form of commercial iron is :

A. Steel

B. Wrought iron

C. Grey cast iron

D. White cast iron

Answer: B

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1. Name the reagent that is used in leaching of gold .

- A. Carbon
- B. Sodium cyanide
- C. Carbon monoxide
- D. Iodine

Answer: B

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2. Which metal is refined by Mond's process?

- A. Titanium

B. Copper

C. Nickel

D. Zinc

Answer: C



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3. The most abundant element in the earth crust is

A. Hydrogen

B. Nitrogen

C. Oxygen

D. Silicon

Answer: C

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4. Which among the following alloys is used in making instruments for electrical measurements ?

A. Stainless steel

B. Manganin

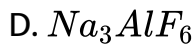
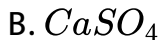
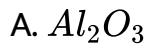
C. Spiegeleisen

D. Duralumin

Answer: B

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5. What is the chemical composition of Nicol prism ?



Answer: C



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6. Name the metal that is purified by placing the impure metal on sloping hearth of a reverberatory furnace and heating that above its melting point in the absence of air .

A. Mercury

B. Galium

C. Zirconium

D. Copper

Answer: D



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7. How is ore of aluminium concentrated ?

A. roasting

B. Leaching

C. Froth floatation

D. Using Wilfley table

Answer: B



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8. Which among the following metals is refined by electrolytic method ?

A. aluminium

B. Bismuth

C. Tin

D. Lead

Answer: A



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

A. Malachite

B. haematite

C. Siderite

D. Limonite

Answer: A



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10. Willemite is

A. Zn_2SiO_4

B. H_2PtCl_6

C. ZnO

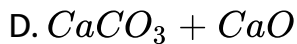
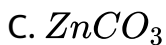
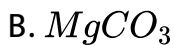
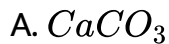
D. $ZnOFe_2O_3$

Answer: A



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11. Calamine is



Answer: C



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12. The purest zinc is made by

A. electrolytic refining

B. zone refining

C. the van-Arkel method

D. the Mond process

Answer: A



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13. Carborundum is the commercial name of

A. SiC

B. $Al_2O_3 \cdot H_2O$

C. $Al_2(SO_4)_3$

D. $AlCl_3$

Answer: A



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14. Apatite is an ore of

A. fluorine

B. chlorine

C. bromine

D. iodine

Answer: A



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