



CHEMISTRY

BOOKS - CHETANA CHEMISTRY

(MARATHI ENGLISH)

Metallurgy

Exersice

1. The metallic lustre__due to exposure

A. increases

B. decreases

C. remains the same

D. first decrease then increases

Answer:



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2. The metals that produce a sound on striking on hard surface are said to be_____.

A. malleable

B. good conductors

C. ductile

D. sonorous

Answer:



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3. The ability of metals to be drawn into wires is called ____.

A. ductility

B. hardness

C. malleability

D. sonority

Answer:



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4. Metal tungsten has the highest melting point_____.

A. $4322^{\circ} C$

B. $3242^{\circ} C$

C. $3242^{\circ} C$

D. $3242^{\circ} C$

Answer:



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5. Non-metal bromine exists_____

A. solid state

B. plasma state

C. liquid state

D. gaseous state

Answer:



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6. _____ is the hardest natural substance.

A. Lithium

B. Diamond

C. Sodium

D. potassium

Answer:



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7. The metals, aluminium, iron and zinc react withy _____ to form their oxides.

A. steam

B. water

C. carbon dioxide

D. ozone

Answer:



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8. _____ is a highly corrosive and fuming liquid.

A. acetic acid

B. distilled water

C. aqua regia

D. aerated water

Answer:



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9. The science and technology regarding the extraction of metals from ores and their purification for the use is called_____.

A. refining

B. calcination

C. roasting

D. metallurgy

Answer:



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10. Aluminium is extracted from its ore ____

A. cyolite

B. bauxite

C. cinnabar fluorspar

D.

Answer:



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11. In _____ process carbonate ores are strongly heated.

A. roasting

B. electrolysis

C. calcination

D. leaching

Answer:



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12. In _____ process sulphide ores are strongly heated.

A. refining

B. roasting

C. calcination

D. electrolysis

Answer:



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13. Anodizing is a process of forming a thick layer of _____.

A. aluminium oxide

B. sodium oxide

C. magnesium oxide

D. potassium oxide

Answer:



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14. If one of the metals is mercury then the alloy is known as _____.

A. hydrargyrum

B. metalloid

C. amalgam

D. brozone

Answer:



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15. Copper reacts with moist carbon dioxide in the air and slowly loses its shine to gain a green coat of ____.

A. copper sulphate

B. copper nitrate

C. copper oxide

D. copper carbonate

Answer:



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16. _____ is not a metalloid.

A. silicon

B. antimony

C. germanium

D. aluminium

Answer:



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17. _____ has the highest melting point.

A. tungsten

B. copper

C. iron

D. zinc

Answer:



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18. ___ is the most reactive metal

A. potassium

B. magnesium

C. calcium

D. sodium

Answer:



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19. _____ is the formula of cuprite



Answer:



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20. Cassiterite is an ore of _____

A. copper sulphate

B. silver

C. calcium

D. tin

Answer:



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21. Metal oxides are generally ___ in nature

A. acidic

B. basic

C. neither acidic nor basic

D. both acidic and basic

Answer:



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22. _____ is a non metal which conducts electricity.

A. diamond

B. iodine

C. carbon

D. graphite

Answer:



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23. _____ is an oxide which is amphoteric

A. copper oxide

B. magnesium dioxide

C. zinc oxide

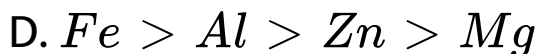
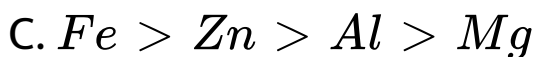
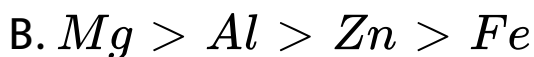
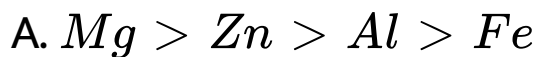
D. calcium oxide

Answer:



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24. The reactivity of metals with dil HCl in decreasing order is _____



Answer:



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25. Cinnabar is an ore of _____.

A. aluminium

B. sodium

C. iron

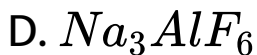
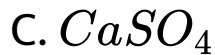
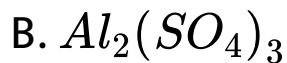
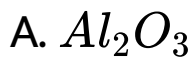
D. mercury

Answer:



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26. The main constituent of bauxite is _____.



Answer:



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27. Which method is used for the purification of more reactive metals?

A. chemical reduction

B. roasting

C. calcination

D. electrolytic reduction

Answer:



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28. Substance used to decrease the melting point of alumina in Hall's process is ____.

A. $CuSO_4$

B. Cryolite

C. gypsum

D. Limonite

Answer:



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29. Galvanisation is a method of protecting iron from rusting by coating it with a thin layer of _____

A. aluminium

B. tin

C. silver

D. zinc

Answer:



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30. Copper reacts with moist carbon dioxide in the air and slowly loses its shine to gain a green coat of ____.

A. copper oxide

B. iron oxide

C. copper carbonate

D. none of the above

Answer:



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31. ____ reacts with dil HNO_3 to evolve hydrogen gas.

A. iron and copper

B. manganese and magnesium

C. zinc and manganese

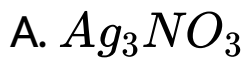
D. aluminium and magnesium

Answer:



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32. Silver articles become black on prolonged exposure to air. This is due to the formation of _____.



Answer:



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33. In Tinning a layer of molten ___ is deposited on metals

A. zinc

B. iron

C. tin

D. copper

Answer:



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34. State whether the following statements are true or false, correct the false statements.

In the alloy, if one of the metals is mercury then, it is known as amalgam.



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35. State whether the following statements are true or false, correct the false statements.

In the process of 'Kalhaee' a metal is coated with zinc to prevent its corrosion.



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36. State whether the following statements are true or false, correct the false statements.

Nitric acid is a strong oxidizing agent.



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37. State whether the following statements are true or false, correct the false statements.

Non-metals react with acids to give a salt and hydrogen gas.



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38. State whether the following statements are true or false, correct the false statements.

The elements or compounds which occur naturally in the earth's crust are known as minerals.



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39. State whether the following statements are true or false, correct the false statements.

Alloys are resistant to corrosion



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40. State whether the following statements are true or false, correct the false statements.

Non-metals are good conductors of heat and electricity.



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41. State whether the following statements are true or false, correct the false statements.

Metals gain electrons and become negatively charged ions



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42. State whether the following statements are true or false, correct the false statements.

Metal iron is more reactive than metal copper



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43. State whether the following statements are true or false, correct the false statements.

Non-metals combine with oxygen to form basic oxides.



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44. State whether the following statements are true or false, correct the false statements.

The minerals from which the metals can be separated economically are called ores.





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45. State whether the following statements are true or false, correct the false statements.

Stannic oxide (SnO_2) is magnetic and ferrous tungstate ($FeWO_4$) is a non-magnetic ingredient



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46. State whether the following statements are true or false, correct the false statements.

Ore contains some impurities, these are called gangue.



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47. State whether the following statements are true or false, correct the false statements.

The process of separating gangue from the ores is called concentration of ores



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48. State whether the following statements are true or false, correct the false statements.

The reactivity of metals increases down to reactivity series



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49. State whether the following statements are true or false, correct the false statements.

Electronic configuration of aluminium is 2,8,2.



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50. State whether the following statements are true or false, correct the false statements.

Cryolite (Na_3AlF_6) and Fluorspar (CaF_2) are used to increase the melting point of alumina.



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51. State whether the following statements are true or false, correct the false statements.

Electrolysis is the method used to obtain pure metals from impure metals



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52. State whether the following statements are true or false, correct the false statements.

The process of converting sulphide ores into oxides by heating strongly in excess of air is called calcination



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53. State whether the following statements are true or false, correct the false statements.

Iodine is lustrous metal.



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Example

1. Select the odd man out

Copper, Gallium, Gold, Silver.



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2. Select the odd man out

Silver, Gold, Platinum, Calcium



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3. Select the odd man out

K_2O , Na_2O , CaO , Al_2O_3



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4. Select the odd man out

Malleability, Ductility, Brittleness, Luster



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5. Select the odd man out

Graphite, Iodine, Silver, Phosphorous



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6. Select the odd man out

Sodium oxide, Zinc oxide, Potassium oxide,
Magnesium oxide.



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7. Select the odd man out

Steel, Iron, Copper, Tungsten



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8. Select the odd man out

Galvanizing, Tinning, Anodizing, Roasting



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9. Select the odd man out

Brass, Bronze, Steel, Antimony.



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10. Find out the correlations:

Metal:Reducing agent:: Non-metal:_____



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11. Find out the correlations:

Brass:Copper and zinc : : Brozne:_____



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12. Find out the correlations:

Aluminium : Bauxite : : Mercury: _____



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13. Find out the correlations:

Cryolite : Na_3AlF_6 : : Fluorspar : _____



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14. Find out the correlations:

Alumina : Al_2O_3 :: Sodium aluminate: _____



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15. Find out the correlations:

Coating of tin over metal:Tinning:: Coating of
zinc over iron: ___



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16. Match the columns:

Substance	Property
(1) Potassium bromide	(a) Combustible
(2) Gold	(b) Soluble in water
(3) Sulphur	(c) No chemical reaction
(4) Neon	(d) High ductility



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17. Match the columns:

Column A	Column B
(1) Bauxite	(a) Mercury
(2) Cassiterite	(b) Aluminium
(3) Cinnabar	(c) Tin



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18. Match the columns:

Column A	Column B
(1) React vigorously with cold water.	(a) Silver and Copper
(2) React with hot water	(b) Iron and Zinc
(3) React with steam	(c) Calcium
(4) React less vigorously with cold water	(d) Sodium and Potassium
(5) Do not react with water	(e) Magnesium

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19. Alloy of sodium with mercury.

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20. Molecular formula of the common ore of aluminium



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21. The oxide that forms salt and water by reacting with both acid and base



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22. The device used for grinding an ore.



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23. The non-metal having electrical conductivity



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24. The reagent that dissolves noble metals.



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25. An alloy of copper and zinc



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26. A metal which does not react with cold water but reacts with steam



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27. The most lustrous substance



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28. an ore of mercury



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29. The process used for heating of carbonate
ores



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30. The metal which is the least reactive in the reactivity series



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31. ___ is the most reactive metal



Watch Video Solution

32. Alloy of copper and tin



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33. Define the following:

Minerals



Watch Video Solution

34. Define the following:

Ores



Watch Video Solution

35. Define the following:

Gangue



Watch Video Solution

36. Define the following:

Metallurgy



Watch Video Solution

37. Define the following:

Roasting



Watch Video Solution

38. Define the following:

Calcination



Watch Video Solution

39. Define the following:

Reduction



Watch Video Solution

40. Define the following:

Galvanizing



Watch Video Solution

41. Define the following:

Electroplating



Watch Video Solution

42. Define the following:

Anodization



Watch Video Solution

43. Define the following:

Tinning



Watch Video Solution

44. Define the following:

Alloy



Watch Video Solution

45. Define the following:

Ionic compounds



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46. Define the following:

Hydraulic Separation method



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47. Define the following:

Magnetic Separation



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48. Write chemical equation for the following events:

Aluminium comes in contact with air.



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49. Write chemical equation for the following events:

Iron filings are dropped in aqueous solution of copper sulphate



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50. Write chemical equation for the following events:

A reaction was brought about between ferric oxide and aluminium





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51. Write chemical equation for the following events:

Electrolysis of alumina is done.



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52. Write chemical equation for the following events:

Zinc oxide is dissolved in dilute hydrochloric acid



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53. Write chemical equation for the following events:

When steam is passed over aluminium



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54. Write chemical equation for the following events:

Extraction of copper from its sulphide ore.





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55. Write chemical equation for the following events:

When sodium oxide dissolves in water



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56. Write chemical equation for the following events:

Copper reacts with concentrated nitric acid



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57. Write chemical equation for the following events:

Copper reacts with dilute nitric acid.



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58. Write chemical equation for the following events:

Aluminium oxide reacts with sodium hydroxide.



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59. Answer the following in one or two sentences

Name the categories into which metals can be classified based on their reactivity



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60. Answer the following in one or two sentences

Which metals are available in free state in nature?



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61. Answer the following in one or two sentences

In what form are ores/minerals generally found in nature?



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62. Answer the following in one or two sentences

Which impurities of bauxite ore are removed by Bayer's process?



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63. Answer the following in one or two sentences

On what does the process of metallurgy depend?





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64. Answer the following in one or two sentences

What is concentration of ore?



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65. Answer the following in one or two sentences

Write the cathode reaction in electrolytic reduction of alumina



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66. Answer the following in one or two sentences

Name the two properties on which Forth floatation method is based



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67. Answer the following in one or two sentences

What is the principle of froth floatation process?



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68. Answer the following in one or two sentences

What is the principle of magnetic separation method?



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69. Answer the following in one or two sentences

Write an equation for the action of heat on aluminium hydroxide



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70. Answer the following in one or two sentences

What is the purpose of roasting in metallurgy?



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71. Answer the following in one or two sentences

What acts as cathode in electrolytic reduction of Al_2O_3 ?



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72. Answer the following in one or two sentences

What works as a electrolyte in Hall's cell?



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73. Answer the following in one or two sentences

What is reactivity series of metals?



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74. Answer the following in one or two sentences

What is the nature of the oxides of metals?



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75. Answer the following in one or two sentences

In the extraction of aluminium, name the process of concentration of Bauxite.



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76. Answer the following in one or two sentences

State the chemical composition of Bauxite.



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77. Answer the following in one or two sentences

What do you mean by amphoteric oxides?



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78. Answer the following in one or two sentences

Why is hydrogen gas not liberated when

metals (except Mn and Mg) are treated with

HNO_3 ?



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79. Answer the following in one or two sentences

What is the electronic definition of oxidation and reduction?



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80. Answer the following in one or two sentences

What are the moderately reactive metals?



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81. Answer the following in one or two sentences

In which form do the moderately reactive metals occur in nature?



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82. Answer the following in one or two sentences

What is meant by corrosion?



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83. Answer the following in one or two sentences

Which measures would you suggest to stop the corrosion of metallic articles or not to allow the corrosion to start?



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84. Answer the following in one or two sentences

What is done so to prevent rusting of iron windows and iron doors of you houseA?



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85. Answer the following in one or two sentences

Which method do we use when we want to study many things together and at the same time?



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86. Distinguish between

Metals and non-metals.(based on physical properties)



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87. Distinguish between

Metals and non_metals (based on chemical proeprties)



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88. Distinguish between

Calcination and roasting.



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89. Distinguish between

Atoms and ions



Watch Video Solution

90. Distinguish between

Cations anions



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91. Give scientific reasons:

Lemon or tamarind is used for cleaning copper vessels turned greenish



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92. Give scientific reasons:

Sodium is always kept in kerosene



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93. Give scientific reasons:

Pine oil is used in Forth floatation



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94. Anodes need do be replaced from time to time during the electrolysis of alumina



Watch Video Solution

95. Give scientific reasons:

Gold and silver are used to make jewellery.



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96. Give scientific reasons:

Aluminium foils are used to wrap food items



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97. Give scientific reasons:

Aluminium oxide is called an amphoteric oxide



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98. Give scientific reasons:

Carbonate and sulphide ores are usually converted into oxides during the process of extraction



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99. Give scientific reasons:

Hydrogen gas is not evolved when metals like copper, zinc, iron, etc. react with dilute nitric acid



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100. Give scientific reasons:

Metals are good conductors of electricity while non-metals are bad conductors of electricity.



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101. Give scientific reasons:

Calcium floats on water during the reaction with water.



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102. Give scientific reasons:

Sodium is more reactive than aluminium



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103. Give scientific reasons:

During electrolytic reduction of alumina, cryolite (Na_3AlF_6) and *flu* or *spar* (CaF_2) are added to the electrolytic mixture containing pure alumina



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104. Give scientific reasons:

Ionic compounds in solid state do not conduct

electricity while in fused state or molten state
they conduct electricity



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105. Give scientific reasons:

Ionic compounds are called electrolytes



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106. Explain the following:

When a copper coin is dipped in silver nitrate

solution, a glitter appears on the coin after some time, Why does this happen? Write the chemical equation.



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107. Explain the following:

The electronic configuration of metal A is 2,8,1 and that of metal B is 2,8,2. Which of the two metals is more reactive? Write their reaction with dilute hydrochloric acid.



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108. Explain the following:

What are the properties of metals and Non-metals?



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109. Explain the following:

Why do silver articles turn blackish while copper vessels turn greenish on keeping in air for a long time?



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110. Explain the following:

Why do pure gold and platinum always glitter?



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111. Explain the following:

Can we permanently prevent the rusting of an iron article by applying a layer of paint on its surface?



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112. Explain the following:

Divide the metals

Cu, Zn, Ca, Mg, Fe, Na, Li into three groups, namely reactive metals, moderately reactive metals and less reactive metals



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113. In the reaction between chlorine and HBr transformation of HBr into Br_2 takes place.

Can this transformation be called oxidation?

Which is the oxidant that brings about this oxidation?



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114. Explain the following:

An ore on treatment with dilute hydrochloric acid produces brisk effervescence .What type of ore is this? What steps will be required to obtain metal from the enriched ore?



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115. Explain the following:

A metal 'X' acquires a green colour coating on outer surface on exposure to air



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116. Explain the following: A metal 'X' acquires a green colour coating on outer surface on exposure to air. (i) Identify the metal 'X' and name the process responsible for this change. (ii) Name and write chemical formula of the green coating formed on the metal. (iii) List

two important methods to prevent the process.



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117. Explain the following:

Name and write chemical formula of the green coating formed on the metal.



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118. Explain the following:

List two important methods to prevent the process



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119. Explain the following:

How is the method of extraction of metals high up in the reactivity series different from that for metals in the middle? Why the same process cannot be applied for them?

Explaining by giving equaiton,the extraction sodium.



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120. What are the various alloys used in daily life? Where are those used?



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121. Explain the following:

What are the properties that the alloy used

for minting coins should have?



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122. Complete the following statement using every given options.

During the extraction of aluminium_____

Ingredients and gangue in bauxite



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123. Complete the following statement using every given options.

Use of lachihng during the concentration of ore



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124. Complete the following statement using every given options.

Chemical reaction transformation fo bauxite into alumina by Hall's process





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125. Complete the following statement using every given options.

Heating the aluminium ore with concentrated caustic soda



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126. Study the diagram and answer the question:

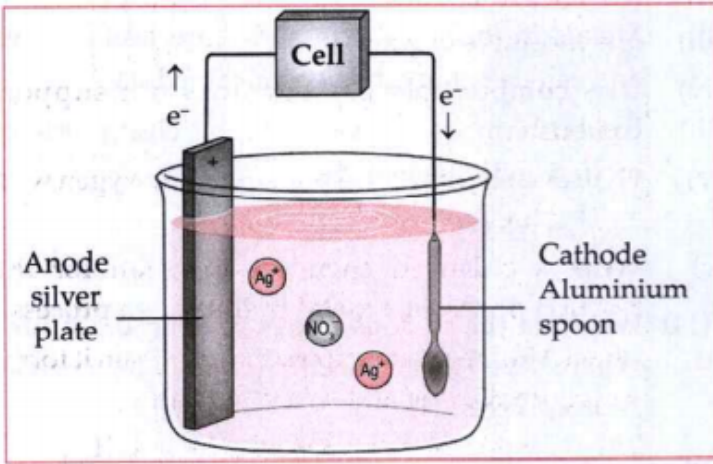


Fig 8.6: Electroplating

What

can you say about the reactivity of metals at anode and cathode.



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127. Study the diagram and answer the question:

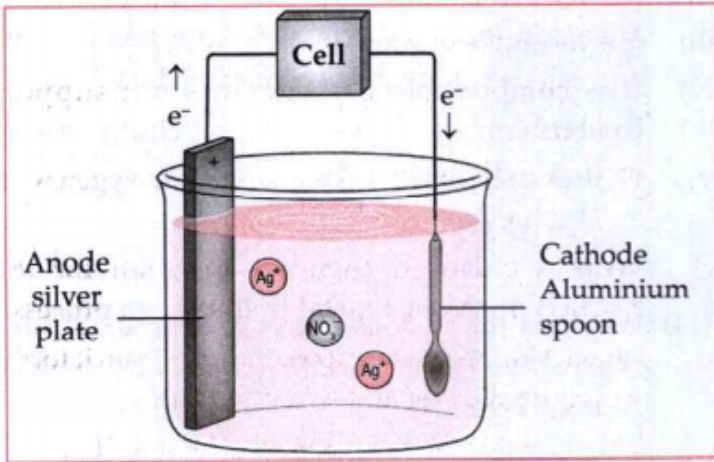


Fig 8.6: Electroplating

Write

the reactions occurring at cathode and anode

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128. State any four properties of ionic compounds

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129. Describe Bayer's Process



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130. Describe the process of electrolytic reduction of alumina with the help of a diagram.



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131. How can corrosion of metals be prevented?



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132. How are metals of high reactivity extracted?



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133. How are moderately reactive metals extracted?



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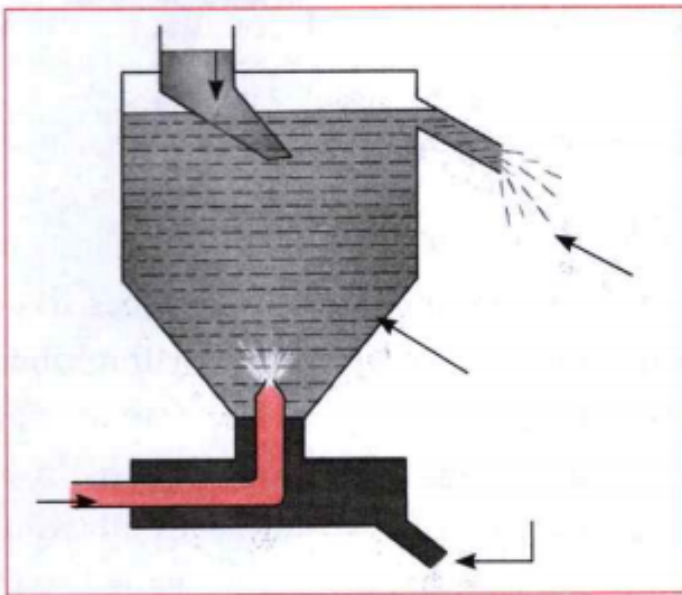
134. How are metals of less reactivity extracted?



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135. Label the parts complete the paragraph with the words given in the bracket:

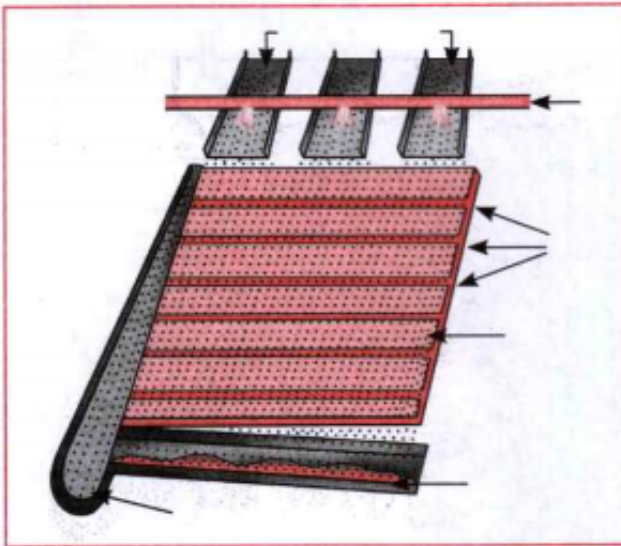
(heavy particles, Gangue particles, bottom, lower, lighter, upper)



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136. Label the parts of complete the paragraph with the words given in the bracket.

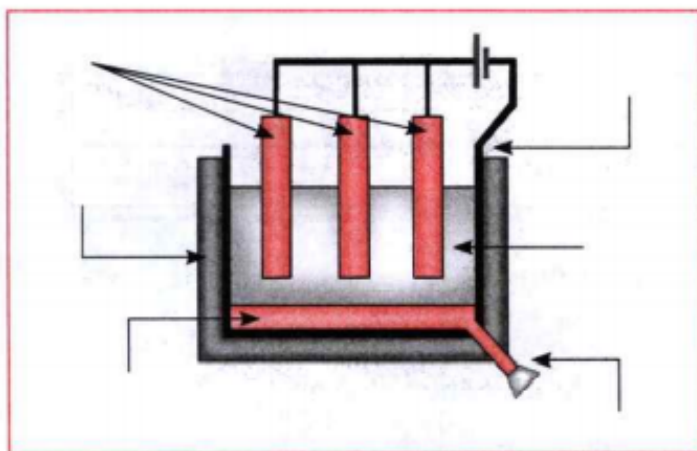
(heavier, ball mill, lighter, slits , inclined , stream of water, vibrating)



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137. Answer the question based on the given diagram

Label the diagram and answer the given question.



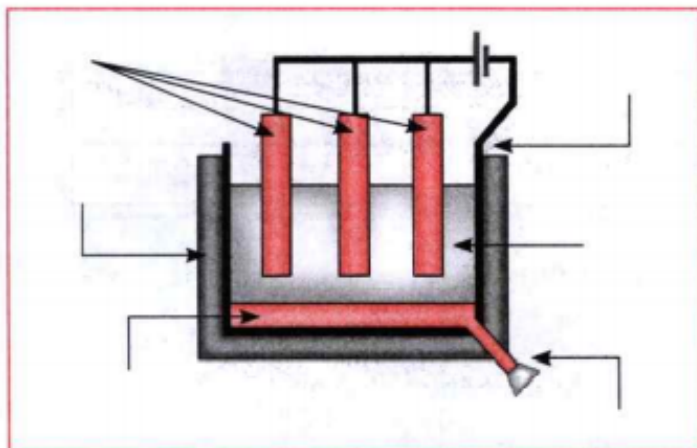
Write

the anode and cathode reactions.



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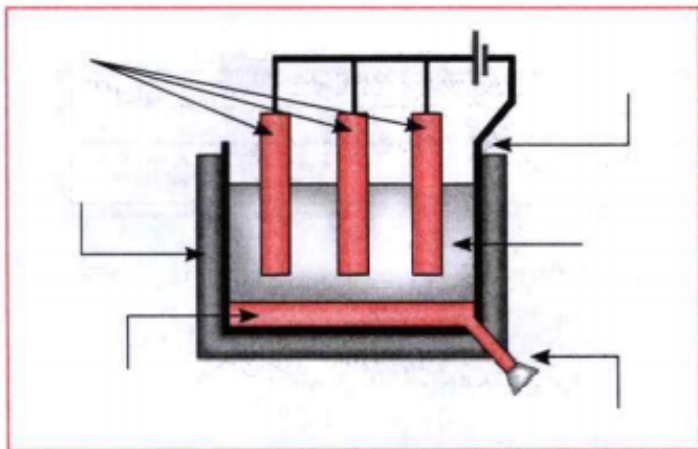
138. Label it correctly answer the question given below:



What does the above diagram indicate?

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139. Label it correctly answer the question given below:

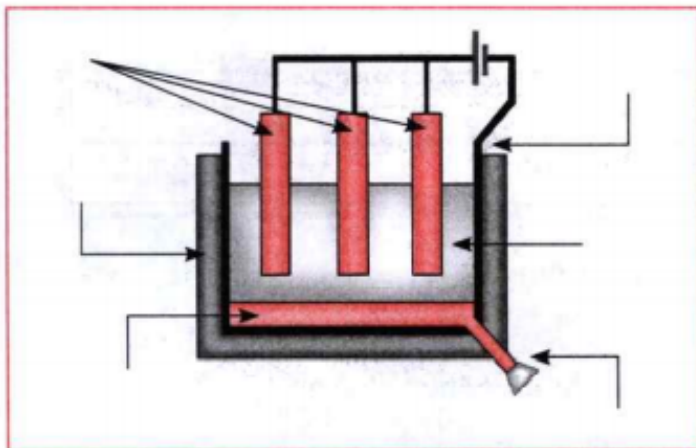


In the above process, name the two compounds along with their molecular formula which are added in the mixture to lower its melting point?



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140. Label it correctly answer the question given below:



Give the cathode and anode reaction?



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141. Anodizing is a process of forming a thick layer of _____.

A. aluminium

B. Sodium oxide

C. Magnesium oxide

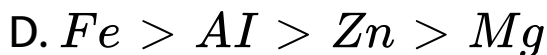
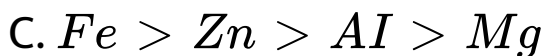
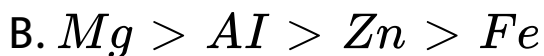
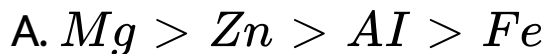
D. Potassium oxide

Answer:



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142. The reactivity of metals with dil HCl in decreasing order is _____



Answer:



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143. Select the odd man out

Sodium oxide, Zinc oxide, Potassium oxide,
Magnesium oxide.



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144. Find out the correlations:

Brass:Copper and zinc : : Bronze:_____



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145. State whether the following statements are true or false, correct the false statements.

In the process of 'Kalhaee' a metal is coated with zinc to prevent its corrosion.



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146. Anodes need do be replaced from time to time during the electrolysis of alumina



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147. Give scientific reasons for the following:

Calcium floats on water during the reaction with water.



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148. Write chemical equation for the following events:

A reaction was brought about between ferric oxide and aluminium



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149. Explain the following:

The electronic configuration of metal A is 2,8,1 and that of metal B is 2,8,2. Which of the two metals is more reactive? Write their reaction with dilute hydrochloric acid.



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150. Explain magnetic separation method.



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151. How can corrosion of metals be prevented?



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152. How are moderately reactive metals extracted?



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153. Explain electrolytic reduction of alumina with the help of diagram.



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