



CHEMISTRY

BOOKS - USHA CHEMISTRY (ODIA ENGLISH)

GENERAL PRINCIPAL AND PROCESS OF ISOLATION OF ELEMENTS

Exercise

1. From a solution of copper sulphate, copper metal can be recovered by adding

A. Fe

B. Ag

C. Au

D. Hg

Answer:



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2. Malachite is the ore of

A. iron

B. copper

C. manganese

D. zinc

Answer:



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3. Froth Floatation process is used for purification of ores of

A. iron

B. aluminium

C. magnesium

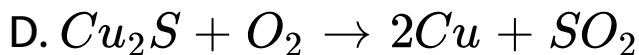
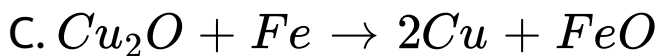
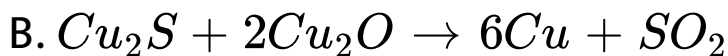
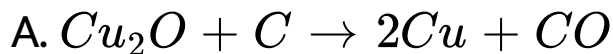
D. copper

Answer:



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4. In the Bessemerisation process copper metal obtained by the reaction



Answer:



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5. The iron obtained from the blast furnace is called as

A. pig iron

B. cast iron

C. wrought iron

D. steel

Answer:



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6. Purest form of iron is called as

A. pig iron

B. wrought iron

C. steel

D. cast iron

Answer:



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7. The reducing agent inside the blast furnace for extraction of iron is ____ .

A. carbon dioxide

B. carbon monoxide

C. silica

D. lime stone

Answer:



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8. Which of the following has lowest % carbon?

A. Wrought iron

B. cast iron

C. Steel

D. all of these have same % of carbon

Answer:



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9. Copper is extracted from sulphide ore by using method.

A. carbon reduction

B. aluminothermic

C. carbon monoxide

D. autoreduction

Answer:



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10. Blister copper is

A. copper ore

B. purest form of copper

C. 98% pure copper

D. none of these

Answer:



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11. Which of the following metal can be extracted by hydrometallurgy ?

A. sodium

B. iron

C. magnesium

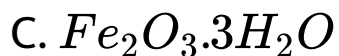
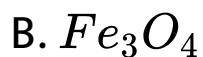
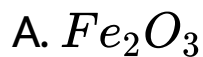
D. copper

Answer:



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12. The formula of haemalite is



Answer:



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13. The haematite ore is concentrated by

A. gravity separation

B. forth floatation process

C. leaching

D. hand picking

Answer:



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14. Bauxite is the important ore of ____

A. iron

B. aluminium

C. copper

D. calcium

Answer:



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15. Sulphide ores are generally concentrated by ____

A. gravity separation

B. leaching

C. froth floatation

D. all of these

Answer:



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16. The impurities present in the ore are called as _____

A. mineral

B. slag

C. flux

D. gangue

Answer:



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17. Aluminium metal is extracted by

A. hydrometallurgy

B. pyrometallurgy

C. electrometallurgy

D. none of these

Answer:



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18. Which of the following metals can't be obtained by auto reduction process ?

A. Cu

B. Pb

C. Hg

D. Al

Answer:



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19. Which of the following is a frothing agent ?

A. sulphuric acid

B. water

C. sodium hydroxide

D. pine oil

Answer:



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20. The reducing agent inside the blast furnace for extraction of iron is ____ .

A. coke

B. carbon dioxide

C. carbon monoxide

D. all of these

Answer:



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21. Which of the following is a sulphide ore ?

A. Bauxite

B. Carnalite

C. Pyrolusite

D. Galena

Answer:



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22. The furnace used for extraction of iron from haematite is called

- A. Reverberatory furnace
- B. blast furnace
- C. muffle furnace
- D. all of these

Answer:



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23. Leaching is a process of ____ ores.

A. reduction

B. refining

C. oxidation

D. concentration

Answer:



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24. Which of the following pairs consists of minerals of the same metal ?

- A. bauxite, limonite
- B. siderite, haematite
- C. malachite, pyrolusite
- D. calamine, galene

Answer:



25. Electrolytic reduction process is used for the extraction of

A. Al

B. Fe

C. Zn

D. Cu

Answer:



26. The function of flux during smelting of ore is

A. to make the ore pores

B. to remove gangue

C. to facilitate reduction

D. to get pure metal

Answer:



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27. In Goldschmidt thermite process the reducing agent is ____ .

A. C

B. Zn

C. Al

D. CO

Answer:



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28. To obtain chromium from chromite the method used is ____ .

- A. carbon reduction
- B. electrolyte reduction
- C. aluminothermic
- D. none of these

Answer:



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29. Complex formation method is used for extraction of ____ .

A. Zn

B. Ag

C. Al

D. Fe

Answer:



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30. The process in which metal is obtained in molten state is called as of the

A. roasting

B. calcination

C. smelting

D. all of these

Answer:



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31. Electrolytic reduction technique is used for extraction of

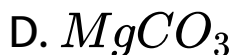
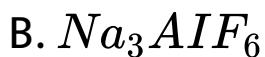
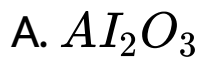
- A. highly electropositive metals
- B. transition metals
- C. highly electronegative elements
- D. none of these

Answer:



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32. Cryolite is ____ .



Answer:



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33. Heating of sulphide ore in presence of air is called as ____ .

A. roasting

B. smelting

C. calcination

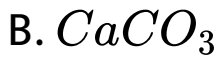
D. none of these

Answer:



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34. The furnace lining in steel manufacture consists of



D. all of these

Answer:



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35. The furnace which gives highest temperature is ____ .

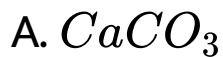
- A. blast furnace
- B. reverberatory furnace
- C. electric arc furnace
- D. muffle furnace

Answer:



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36. Which of the following is not a basic flux ?



Answer:



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37. Nickel can be purified by ____ process.

A. Van. Akrel

B. Cupellation

C. poling

D. Mond

Answer:



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38. In Goldschmidt thermite process the reducing agent is ____ .

A. Oxidising agent

B. reducing agent

C. frothing agent

D. dehydrating agent

Answer:



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39. Extraction of zinc from zinc blende is achieved by

A. electrolytic reduction

B. roasting followed by thermite reduction

C. roasting followed by carbon reduction

D. roasting followed by self reduction

Answer:



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40. Which of the following metals exists as nuggets?

A. silver

B. gold

C. mercury

D. all of these

Answer:



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41. Calcium silicate is an / a ____ .

A. ore

B. slag

C. flux

D. gangue

Answer:



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42. Carbon reduction process is not used for extraction of

A. Zinc

B. Iron

C. Calcium

D. all of these

Answer:



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43. Which of the following is an oxide ore ?

A. Dolomite

B. bauxite

C. copper pyrite

D. all of these

Answer:



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44. Common impurities present in bauxite ore are ____ .

A. ZnO

B. CaO

C. SiO_2

D. all of these

Answer:



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45. In which zone of the blast furnace temperature is maximum ?

A. zone of fusion

B. zone of reduction

C. zone of slag formation

D. zone of combustion

Answer:



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46. Which of the following contains highest % of carbon?

A. cast iron

B. pig iron

C. steel

D. wrought iron

Answer:

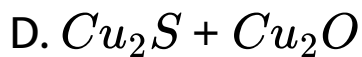
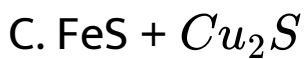


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47. During smelting process of copper pyrite ore the 'matte' formed has the composition

A. $\text{FeS} + \text{FeO}$

B. $\text{FeS} + \text{Cu}_2\text{O}$



Answer:



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48. The flux used in the extraction of copper is



D. $CaCO_3$

Answer:



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49. Bauxite ore mainly containing silica impurity is purified by

A. Serpek's process

B. Hall's process

C. Baeyer's process

D. All of these

Answer:



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50. Which of the following is not an ore of zinc ?

A. Zincite

B. Calamine

C. Zinc blende

D. Azurite

Answer:



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51. A free state of a metal is called as its ____ state.



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52. What is gangue ?



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53. In electrorefining process the impure metal is made as ____ .



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54. In Goldschmidt thermite process the reducing agent is ____ .



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55. Refining of Aluminium metal can be carried out by ___ process.



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56. What is flux ?



[Watch Video Solution](#)

57. What is slag ?



[Watch Video Solution](#)

58. Calcium silicate is an / a ____ .



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59. Flux + gangue = ____ .



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60. During extraction of 'Al' from bauxite ____ is added to lower the melting point of bauxite.



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61. Write the name and composition of two ores of copper.



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62. During extraction of iron, what is the role of lime stone ?



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63. Sulphide ores are generally concentrated by ____



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64. What is anode mud ?



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65. Give an example of a metal which is obtained by autoredution process.



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66. The electropositive metals can be obtained by ____ process.



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67. Nickel can be purified by ____ process.



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68. What is smelting ?



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69. Extraction of zinc from zinc blende is achieved by



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70. What is the role of silica in the metallurgy of copper?



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71. How is cast iron different from pig iron ?



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72. Out of C and CO which is a better reducing agent for ZnO ?



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73. What type of furnace is used for calcination ?





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74. Name the carbonate ore of zinc.



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75. What is the flux used in the extraction of iron?



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76. What is flux ?



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77. What is the role of depressants in froth floatation process ?



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78. What is mean by pyrometallurgy ?



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79. How is copper extracted from its low grade ore?



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80. Why is chalcopyrite ore is roasted and not calcined in the extraction of copper ?



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81. In which type of refining process we can get a metal with highest degree of purity ?



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82. What is acidic flux ? Give an example.



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83. Write the reaction involved in thermite process for extraction of chromium.



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84. What is the charge added to blast furnace during extraction of iron ?



[Watch Video Solution](#)

85. What is wrought iron ?



[Watch Video Solution](#)

86. What is stainless steel ?



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87. What is blister copper ?



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88. What is magnalium ?



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89. The molten impure zinc tapped off from furnace is called as ____ .



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90. What is the composition of copper matte ?



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91. Which of the following ores can be concentrated by froth-floatation process ? (

Fe_2O_3 , Al_2O_3 , ZnS)



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92. What is the role of silica in the metallurgy of copper?



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93. ____ method is used for refining of copper.



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94. What is difference between mineral and ore ?



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95. What is difference between calcination and roasting ?



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96. What is leaching ? Glve an example.



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97. What is Goldschmidt aluminothermic process ?



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98. Write down the reactions taking place in different zones in the blast furnace during the extraction of iron.



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99. Copper can be extracted by hydrometallurgy but not zinc. Explain.



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100. Describe the principle of van-Arkel process for refining of metal.



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101. Name three ores which can be purified by froth floatation process. What is the role of pine oil in this process ?



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102. Name one chief ore of iron and aluminium. Name the methods used for the concentration of these ores and their reduction.



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103. Explain the electrolytic refining of a metal.



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104. How is zinc extracted from its sulphide ore ?



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105. How is zinc dust and granulated zinc prepared from zinc metal ?



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106. How the bauxite ore is purified which contains considerable amount of silica impurity ?



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107. What is the role of lime stone in the extraction of iron ?



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108. How can you get wrought iron from cast iron ?



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109. What is polling ?



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110. What do you mean by autoreduction in metallurgy?



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111. What is thermite welding ?



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112. What is the role of silica in the metallurgy of copper from its pyrite ore ?



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113. What are the condition in which Al can reduce MgO and Mg can reduce Al_2O_3 ?



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114. Describe Mond process for refining of nickel



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115. What is the role of depressant in froth flotation process ?



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116. Out of CO and C, which is a better reducing agent at $400^{\circ}C$?



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117. What is the role of lime stone in the extraction of iron ?



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118. Out of 'C' and CO which is a better reducing agent for FeO ?



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119. From a solution of copper sulphate, copper metal can be recovered by adding

A. Fe

B. Ag

C. Au

D. Hg

Answer:



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120. Malachite is the ore of

A. iron

B. copper

C. manganese

D. zinc

Answer:



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121. Froth Floatation process is used for purification of ores of

A. iron

B. aluminium

C. magnesium

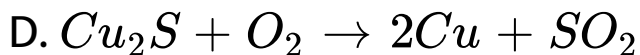
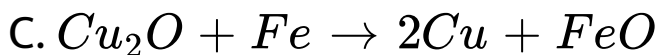
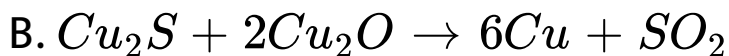
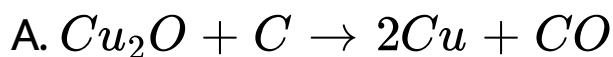
D. copper

Answer:



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122. In the Bessemerisation process copper metal obtained by the reaction



Answer:



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123. The iron obtained from the blast furnace is called as

- A. pig iron
- B. cast iron
- C. wrought iron
- D. steel

Answer:



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124. Purest form of iron is called as

A. pig iron

B. wrought iron

C. steel

D. cast iron

Answer:



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125. The reducing agent inside the blast furnace for extraction of iron is ____ .

A. carbon dioxide

B. carbon monoxide

C. silica

D. lime stone

Answer:



126. Which of the following has lowest % carbon?

A. Wrought iron

B. cast iron

C. Steel

D. all of these have same % of carbon

Answer:



127. Copper is extracted from sulphide ore by using method.

A. carbon reduction

B. aluminothermic

C. carbon monoxide

D. autoreduction

Answer:



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128. Blister copper is

A. copper ore

B. purest form of copper

C. 98% pure copper

D. none of these

Answer:



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129. Which of the following metal can be extracted by hydrometallurgy ?

A. sodium

B. iron

C. magnesium

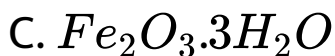
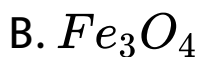
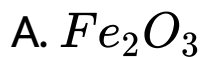
D. copper

Answer:



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130. The formula of haemalite is



Answer:



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131. The haematite ore is concentrated by

- A. gravity separation
- B. forth floatation process
- C. leaching
- D. hand picking

Answer:



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132. Bauxite is the important ore of ____

- A. iron

B. aluminium

C. copper

D. calcium

Answer:



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133. Sulphide ores are generally concentrated by ____

A. gravity separation

B. leaching

C. froth floatation

D. all of these

Answer:



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134. The impurities present in the ore are called as ____

A. mineral

B. slag

C. flux

D. gangue

Answer:



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135. Aluminium metal is extracted by

A. hydrometallurgy

B. pyrometallurgy

C. electrometallurgy

D. none of these

Answer:



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136. Which of the following metals can't be obtained by auto reduction process ?

A. Cu

B. Pb

C. Hg

D. Al

Answer:



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137. Which of the following is a frothing agent

?

A. sulphuric acid

B. water

C. sodium hydroxide

D. pine oil

Answer:



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138. The reducing agent inside the blast furnace for extraction of iron is ____ .

A. coke

B. carbon dioxide

C. carbon monoxide

D. all of these

Answer:



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139. Which of the following is a sulphide ore ?

A. Bauxite

B. Carnalite

C. Pyrolusite

D. Galena

Answer:



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140. The furnace used for extraction of iron from haematite is called

A. Reverberatory furnace

B. blast furnace

C. muffle furnace

D. all of these

Answer:



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141. Leaching is a process of ____ ores.

A. reduction

B. refining

C. oxidation

D. concentration

Answer:



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142. Which of the following pairs consists of minerals of the same metal ?

- A. bauxite, limonite
- B. siderite, haematite
- C. malachite, pyrolusite
- D. calamine, galena

Answer:



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143. Electrolytic reduction process is used for the extraction of

A. Al

B. Fe

C. Zn

D. Cu

Answer:



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144. The function of flux during smelting of ore is

- A. to make the ore pores
- B. to remove gangue
- C. to facilitate reduction
- D. to get pure metal

Answer:



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145. In Goldschmidt thermite process the reducing agent is ____ .

A. C

B. Zn

C. Al

D. CO

Answer:



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146. To obtain chromium from chromite the method used is ____ .

- A. carbon reduction
- B. electrolyte reduction
- C. aluminothermic
- D. none of these

Answer:



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147. Complex formation method is used for extraction of ____ .

A. Zn

B. Ag

C. Al

D. Fe

Answer:



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148. The process in which metal is obtained in molten state is called as of the

A. roasting

B. calcination

C. smelting

D. all of these

Answer:



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149. Electrolytic reduction technique is used for extraction of

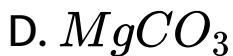
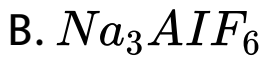
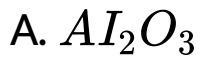
- A. highly electropositive metals
- B. transition metals
- C. highly electronegative elements
- D. none of these

Answer:



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150. Cryolite is ____ .



Answer:



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151. Heating of sulphide ore in presence of air is called as ____ .

A. roasting

B. smelting

C. calcination

D. none of these

Answer:



152. The furnace lining in steel manufacture consists of



D. all of these

Answer:



153. The furnace which gives highest temperature is ____ .

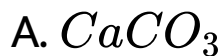
- A. blast furnace
- B. reverberatory furnace
- C. electric arc furnace
- D. muffle furnace

Answer:



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154. Which of the following is not a basic flux ?



Answer:



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155. Nickel can be purified by ____ process.

A. Van. Akrel

B. Cupellation

C. poling

D. Mond

Answer:



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156. In aluminothermic process, aluminium is used as

- A. Oxidising agent
- B. reducing agent
- C. frothing agent
- D. dehydrating agent

Answer:



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157. Extraction of zinc from zinc blende is achieved by

- A. electrolytic reduction
- B. roasting followed by thermite reduction
- C. roasting followed by carbon reduction
- D. roasting followed by self reduction

Answer:



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158. Which of the following metals exists as nuggets?

A. silver

B. gold

C. mercury

D. all of these

Answer:



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159. Calcium silicate is an / a ____ .

A. ore

B. slag

C. flux

D. gangue

Answer:



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160. Carbon reduction process is not used for extraction of

A. Zinc

B. Iron

C. Calcium

D. all of these

Answer:



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161. Which of the following is an oxide ore ?

A. Dolomite

B. bauxite

C. copper pyrite

D. all of these

Answer:



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162. Common impurities present in bauxite ore are ____ .

A. ZnO

B. CaO

C. SiO_2

D. all of these

Answer:



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163. In which zone of the blast furnace temperature is maximum ?

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

Answer:



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164. Which of the following contains highest % of carbon?

A. cast iron

B. pig iron

C. steel

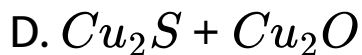
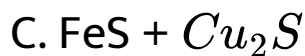
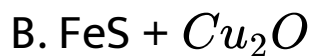
D. wrought iron

Answer:



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165. During smelting process of copper pyrite ore the 'matte' formed has the composition



Answer:



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166. The flux used in the extraction of copper is

A. CaO

B. SiO_2

C. MgO

D. $CaCO_3$

Answer:



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167. Bauxite ore mainly containing silica impurity is purified by

A. Serpek's process

B. Hall's process

C. Baeyer's process

D. All of these

Answer:



Watch Video Solution

168. Which of the following is not an ore of zinc ?

A. Zincite

B. Calamine

C. Zinc blende

D. Azurite

Answer:



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169. A free state of a metal is called as its ____ state.



Watch Video Solution

170. What is gangue ?



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171. In electrorefining process the impure metal is made as ____ .



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172. In Goldschmidt thermite process the reducing agent is ____ .



[Watch Video Solution](#)

173. Refining of Aluminium metal can be carried out by ____ process.



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174. What is flux ?



Watch Video Solution

175. What is slag ?



Watch Video Solution

176. Calcium silicate is a ____ .



Watch Video Solution

177. Flux + gangue = ____ .



Watch Video Solution

178. During extraction of Al from bauxite ____ is added to lower the melting point of bauxite.



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179. Write the name and composition of two ores of copper.





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180. What is the role of lime stone in the extraction of iron ?



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182. What is anode mud ?



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Watch Video Solution

184. The electropositive metals can be obtained by ___ process.



Watch Video Solution

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Watch Video Solution

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203. What is wrought iron ?



[Watch Video Solution](#)

204. What is stainless steel ?



[Watch Video Solution](#)

205. Blister copper is





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206. What is magnalium ?



[Watch Video Solution](#)

207. The molten impure zinc tapped off from furnace is called as ____ .



[Watch Video Solution](#)

208. During smelting process of copper pyrite ore the 'matte' formed has the composition



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209. Which of the following ores can be concentrated by froth-floatation process ? (
 Fe_2O_3 , Al_2O_3 , ZnS)



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210. What is the role of silica in the metallurgy of copper?



Watch Video Solution

211. ___ method is used for refining of copper.



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212. What is difference between mineral and ore ?



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213. What is difference between calcination and roasting ?



[Watch Video Solution](#)

214. What is leaching ? Glve an example.



[Watch Video Solution](#)

215. What is Goldschmidt aluminothermic process ?



Watch Video Solution

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Watch Video Solution

219. Name three ores which can be purified by froth floatation process. What is the role of pine oil in this process ?



Watch Video Solution

220. Name one chief ore of iron and aluminium. Name the methods used for the concentration of these ores .



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Watch Video Solution

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Watch Video Solution

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[Watch Video Solution](#)

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[Watch Video Solution](#)

226. How can you get wrought iron from cast iron ?



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227. What is polling ?



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228. Give an example of a metal which is obtained by autoreduction process.



Watch Video Solution

229. What is thermite welding ?



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230. What is the role of silica in the metallurgy of copper?



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231. What are the condition in which Al can reduce MgO and Mg can reduce Al_2O_3 ?



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232. Describe Mond process for refining of nickel



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233. What is the role of depressant in froth flotation process ?



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234. Out of CO and C, which is a better reducing agent at $400^{\circ}C$?



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235. What is the role of lime stone in the extraction of iron ?



Watch Video Solution

236. Out of 'C' and CO which is a better reducing agent for FeO ?



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237. From a solution of copper sulphate, copper metal can be recovered by adding

A. Fe

B. Ag

C. Au

D. Hg

Answer:



Watch Video Solution

238. Malachite is the ore of _____.

A. iron

B. copper

C. manganese

D. zinc

Answer:



Watch Video Solution

239. In which type of ores, froth floatation process is generally used for metallurgy?

A. iron

B. aluminium

C. magnesium

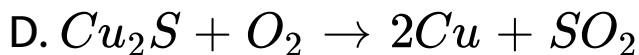
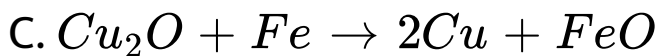
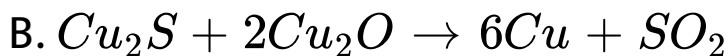
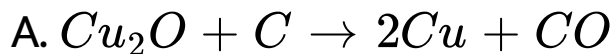
D. copper

Answer:



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240. In the Bessemerisation process copper metal obtained by the reaction



Answer:



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241. The iron obtained from the blast furnace is called as

A. pig iron

B. cast iron

C. wrought iron

D. steel

Answer:



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242. Purest form of iron is called as

A. pig iron

B. wrought iron

C. steel

D. cast iron

Answer:



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243. What are the reducing agents inside a blast furnace?

A. carbon dioxide

B. carbon monoxide

C. silica

D. lime stone

Answer:



Watch Video Solution

244. Which of the following has lowest % carbon?

A. Wrought iron

B. cast iron

C. Steel

D. all of these have same % of carbon

Answer:



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245. Copper is extracted from sulphide ore by using method.

A. carbon reduction

B. aluminothermic

C. carbon monoxide

D. autoreduction

Answer:



Watch Video Solution

246. Blister copper is

- A. copper ore
- B. purest form of copper
- C. 98% pure copper
- D. none of these

Answer:



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247. Which of the following metal can be extracted by hydrometallurgy ?

A. sodium

B. iron

C. magnesium

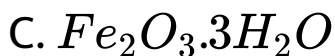
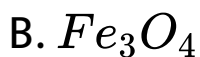
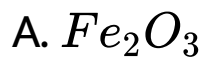
D. copper

Answer:



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248. The formula of haematite is



Answer:



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249. Copper pyrites ore is concentrated by

- A. gravity separation
- B. forth floatation process
- C. leaching
- D. hand picking

Answer:



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250. Bauxite is the ore of which metal ?

- A. iron

B. aluminium

C. copper

D. calcium

Answer:



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251. Sulphide ores are generally concentrated by ____

A. gravity separation

B. leaching

C. froth floatation

D. all of these

Answer:



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252. The impurities present in the ore are called as ____

A. mineral

B. slag

C. flux

D. gangue

Answer:



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253. Aluminium metal is extracted by

A. hydrometallurgy

B. pyrometallurgy

C. electrometallurgy

D. none of these

Answer:



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254. Which of the following metals can't be obtained by auto reduction process ?

A. Cu

B. Pb

C. Hg

D. Al

Answer:



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255. Which of the following is a frothing agent

?

A. sulphuric acid

B. water

C. sodium hydroxide

D. pine oil

Answer:



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256. What are the reducing agents inside a blast furnace?

A. coke

B. carbon dioxide

C. carbon monoxide

D. all of these

Answer:



Watch Video Solution

257. Which of the following is a sulphide ore ?

A. Bauxite

B. Carnalite

C. Pyrolusite

D. Galena

Answer:



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258. The furnace used for extraction of iron from haematite is called

A. Reverberatory furnace

B. blast furnace

C. muffle furnace

D. all of these

Answer:



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259. Leaching is a process of ____ ores.

A. reduction

B. refining

C. oxidation

D. concentration

Answer:



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260. Which of the following pairs consists of minerals of the same metal ?

- A. bauxite, limonite
- B. siderite, haematite
- C. malachite, pyrolusite
- D. calamine, galene

Answer:



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261. Electrolytic reduction process is used for the extraction of

A. Al

B. Fe

C. Zn

D. Cu

Answer:



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262. The function of flux during smelting of ore is

- A. to make the ore pores
- B. to remove gangue
- C. to facilitate reduction
- D. to get pure metal

Answer:



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263. In Goldschmidt thermite process the reducing agent is ____ .

A. C

B. Zn

C. Al

D. CO

Answer:



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264. To obtain chromium from chromite the method used is ____ .

- A. carbon reduction
- B. electrolyte reduction
- C. aluminothermic
- D. none of these

Answer:



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265. Complex formation method is used for extraction of ____ .

A. Zn

B. Ag

C. Al

D. Fe

Answer:



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266. The process in which metal is obtained in molten state is called as of the

- A. roasting
- B. calcination
- C. smelting
- D. all of these

Answer:



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267. Electrolytic reduction technique is used for extraction of

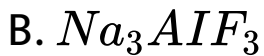
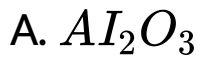
- A. highly electropositive metals
- B. transition metals
- C. highly electronegative elements
- D. none of these

Answer:



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268. Cryolite is ____ .



Answer:



Watch Video Solution

269. Heating of sulphide ore in presence of air is called as ____ .

A. roasting

B. smelting

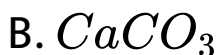
C. calcination

D. none of these

Answer:



270. The furnace lining in steel manufacture consists of



D. all of these

Answer:



271. The furnace which gives highest temperature is ____ .

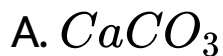
- A. blast furnace
- B. reverberatory furnace
- C. electric arc furnace
- D. muffle furnace

Answer:



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272. Which of the following is not a basic flux ?



Answer:



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273. Nickel can be purified by ____ process.

A. Van. Akrel

B. Cupellation

C. poling

D. Mond

Answer:



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274. In aluminothermic process, aluminium is used as

- A. Oxidising agent
- B. reducing agent
- C. frothing agent
- D. dehydrating agent

Answer:



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275. Extraction of zinc from zinc blende is achieved by

- A. electrolytic reduction
- B. roasting followed by thermite reduction
- C. roasting followed by carbon reduction
- D. roasting followed by self reduction

Answer:



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276. Which of the following metals exists as nuggets?

A. silver

B. gold

C. mercury

D. all of these

Answer:



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277. Calcium silicate is a ____ .

A. ore

B. slag

C. flux

D. gangue

Answer:



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278. Carbon reduction process is not used for extraction of

A. Zinc

B. Iron

C. Calcium

D. all of these

Answer:



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279. Which of the following is an oxide ore ?

A. Dolomite

B. bauxite

C. copper pyrite

D. all of these

Answer:



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280. Common impurities present in bauxite ore are ____ .

A. ZnO

B. CaO

C. SiO_2

D. all of these

Answer:



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281. In which zone of the blast furnace temperature is maximum ?

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

Answer:



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282. Which of the following contains highest % of carbon?

A. cast iron

B. pig iron

C. steel

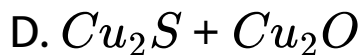
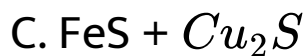
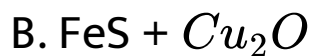
D. wrought iron

Answer:



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283. During smelting process of copper pyrite ore the 'matte' formed has the composition



Answer:



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284. The flux used in the extraction of copper is

A. CaO

B. SiO_2

C. MgO

D. CaCO_3

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297. Write the name and composition of two ores of copper.



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298. What is the function of limestone the extraction of iron? Give equation to explain its action.



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341. How is zinc dust and granulated zinc prepared from zinc metal ?





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[Watch Video Solution](#)

344. How can you get wrought iron from cast iron ?



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345. What is polling ?



Watch Video Solution

346. What do you mean by autoreduction in metallurgy?



Watch Video Solution

347. What is thermite welding ?



Watch Video Solution

348. What is the role of silica in the metallurgy of copper?



Watch Video Solution

349. Predict conditions under which Al might be expected to reduce MgO.



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350. Describe Mond process for refining of nickel



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351. What is the role of depressant in froth flotation process ?



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352. Out of C and CO, which is a better reducing agent at 673 K?



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353. What is flux ?



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