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Chemistry 12 Chapter 6 General Principles and Processes of Isolation of Elements Part 2 (For CBSE, ICSE, IAS, NET, NRA 2022)

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II. Multiple Choice Questions (Type-II)

Note: In the following questions two or more options may be correct.

Question 14:

At the temperature corresponding to which of the points in Fig. 6.1, FeO will be reduced to Fe by coupling the reaction $2\text{FeO} \rightarrow 2\text{Fe} + \text{O}_2$ with all of the following reactions?

- (a) $\text{C} + \text{O}_2 \rightarrow \text{CO}_2$
- (b) $2\text{C} + \text{O}_2 \rightarrow 2\text{CO}$ and
- (c) $2\text{CO} + \text{O}_2 \rightarrow 2\text{CO}_2$
- (i) Point A
- (ii) Point B
- (iii) Point D
- (iv) Point E

Answer: (ii) , (iv)

Question 15:

Which of the following options are correct?

- (i) Cast iron is obtained by remelting pig iron with scrap iron and coke using hot air blast.
- (ii) In extraction of silver, silver is extracted as cationic complex.
- (iii) Nickel is purified by zone refining.
- (iv) Zr and Ti are purified by van Arkel method.

Answer: (i) , (iv)

Question 16:

In the extraction of aluminium by Hall-Heroult process, purified Al_2O_3 is mixed with CaF_2 to

- (i) Lower the melting point of Al_2O_3 .
- (ii) Increase the conductivity of molten mixture.
- (iii) Reduce Al_3^+ into $\text{Al}(s)$.
- (iv) Acts as catalyst.

Answer: (i) , (ii)

Question 17:

Which of the following statements is correct about the role of substances added in the froth floatation process?

- (i) Collectors enhance the non-wettability of the mineral particles.
- (ii) Collectors enhance the wettability of gangue particles.
- (iii) By using depressants in the process two sulphide ores can be separated.
- (iv) Froth stabilisers decrease wettability of gangue.

Answer: (i) , (iii)

Question 18:

In the Froth Floatation process, zinc sulphide and lead sulphide can be separated by _____.

- (i) Using collectors.
- (ii) Adjusting the proportion of oil to water.
- (iii) Using depressant.
- (iv) Using froth stabilisers.

Answer: (ii) , (iii)

Question 19:

Common impurities present in bauxite are _____.

- (i) CuO
- (ii) ZnO
- (iii) Fe_2O_3

(iv) SiO_2

Answer: (iii) , (iv)

Question 20:

Which of the following ores are concentrated by froth floatation?

(i) Haematite

(ii) Galena

(iii) Copper pyrites

(iv) Magnetite

Answer: (ii) , (iii)

Question 21:

Which of the following reactions occur during calcination?

(i) $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$

(ii) $2\text{FeS}_2 + \frac{11}{2}\text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + 4\text{SO}_2$

(iii) $\text{Al}_2\text{O}_3 \cdot x\text{H}_2\text{O} \rightarrow \text{Al}_2\text{O}_3 + x\text{H}_2\text{O}$

(iv) $\text{ZnS} + \frac{3}{2}\text{O}_2 \rightarrow \text{ZnO} + \text{SO}_2$

Answer: (i) , (iii)

Question 22:

For the metallurgical process of which of the ores calcined ore can be reduced by carbon?

(i) Haematite

(ii) Calamine

(iii) Iron pyrites

(iv) Sphalerite

Answer: (i) , (ii)