



VIDYANIKETAN COACHING CLASSES, GHANSAANGI

Class:- 10th
Sub:- Science-1

Mark's:- 25
Time:- 1:30 Hr

Q.1) Choose the correct alternatives.

[3]

- i] -----is a basic oxide.
[A] CO_2 [B] K_2O [C] SO_2 [D] Al_2O_3
- ii] Bronze is an alloy of-----
[A] copper and tin [B] copper and zinc [C] copper and iron [D] iron and nickel
- iii] -----is obtained by the reduction of its oxide by carbon.
[A] Zinc [B] Aluminium [C] Sodium [D] Potassium

Q.2) Answer the following question's. [Any-4]

[8]

- i] Explain the term corrosion with suitable examples.
- ii] Why sodium is stored in kerosene?
- iii] Write names:- a.] Alloy of sodium with mercury. b.] The reagent that dissolves noble metals.
- iv] Write chemical equation for the following events.
a] Iron filings are dropped in aqueous solution of copper sulphate. b] Aluminium came in contact with air.
- v] Distinguish between Metal and Non-Metal.
- vi] Write the electrode reaction for electrolysis of molten magnesium chloride and calcium chloride.

Q.3) Answer the following question's. [Any-3]

[9]

- i] State the general properties of ionic compounds.
- ii] 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.
- iii] Explain the term:- a.] Metallurgy b.] Ores c.] Minerals
- iv] What are alloys? Explain with suitable example properties of alloy which makes them useful over pure metal.
- v] Describe the magnetic separation method?

Q.4) Answer the following.[Any-1]

[5]

- i] A scientist was studying the metals A, B and C. He found that A reacts with cold water, hot water and steam, B with hot water and steam. He found that C reacts with steam only. Identify A, B and C and write the chemical equations involved.
- ii] Describe the electrolytic reduction of alumina with neat labelled diagram.

Best of luck.....

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