



# SHIKSHA CLASSES

Subject : Science -I

## Question Paper

Total Marks : 20

Class : X

Topic : 8. Metallurgy

Time : 1 Hour

**Q. 1 : A) Choose the correct alternative :**

2

**1) The earthy impurities associated with mineral used in metallurgy are called.**

- a) Slag
- b) Flux
- c) Gangue
- d) Mineral

**2) A process employed for the concentration of sulphide ore is.**

- a) Froth flotation
- b) Roasting
- c) Electrolysis
- d) Bessemerisation

**B) Solve the following question. (Any One)**

1

1) Write name and molecular formula of the common ore of aluminium.

**2) Give correlation**

Bronze : Copper and Tin :: Stainless steel : \_\_\_\_\_

**3) State true or false.**

The melting and boiling points of ionic compounds are low.

**Q. 2 : A) Give scientific reason. (Any One)**

2

1) Cryolite is added to alumina in the electrolysis.

2) Calcium floats over water during the reaction with water.

**B) Solve the following question. (Any Two)**

4

1) State four properties of ionic compounds.

2) Write and explain the reaction when steam is passed over aluminium.

3) Define : i) Calcination ii) Galvanising

4) Why sodium is always kept in Kerosene?

**Q. 3 : Solve the following questions. (Any Two)**

6

1) Divide the metals Cu, Zn, Ca, Mg, Fe, Na, Li into three groups namely reactive metals, moderately reactive metals and less reactive metals.

2) The electronic configuration of metal 'A' is 2, 8, 1 that of metal 'B' is 2, 8, 2 which of the two metals is more reactive? write their reaction with dilute hydrochloric acid.

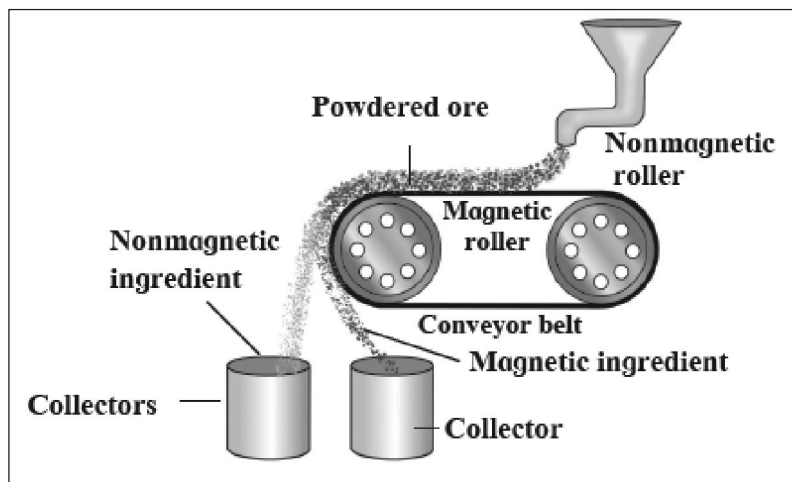
3) Explain any three chemical properties of metals with examples and reaction.

4) Explain Corrosion of metals and methods of preventing corrosion.

**Q. 4 : Solve the following questions. (Any One)**

5

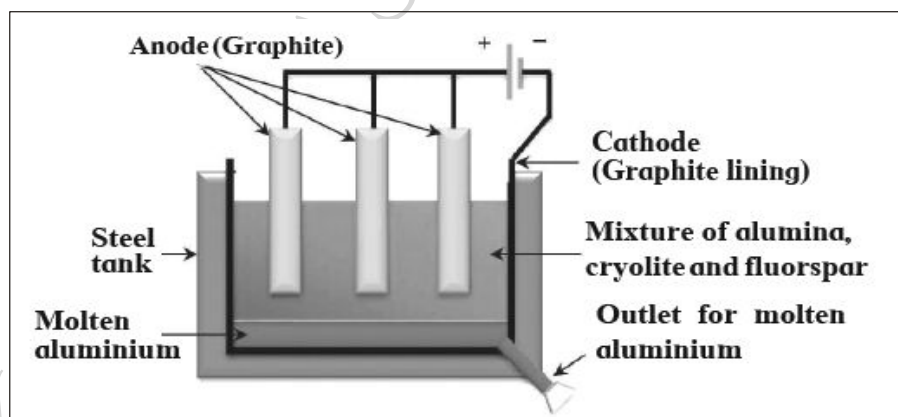
1) Answer the following question with reference to diagram.



**Magnetic Separation**

- Which machine is used in the magnetic separation method?
- Name the two parts of electromagnetic machine.
- Name the magnetic and nonmagnetic ingredients of tin ore.
- From which conveyor belt is made up of?
- Name of ore of tin.

2) Answer the following question with reference to diagram.



- Which process of extraction shown in figure?
- Write cathode reaction.
- Why cryolite is mixed with molten alumina?
- Write the molecular formula of cryolite and fluorspar.
- Which gas is liberated at anode?

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