

108E

Second Mid Term Evaluation

KP(G)
Std. 10

CHEMISTRY

Time: 45 Mts.
Score: 20

Instructions:

- The first 7 minutes are cool-off time.
- Time is spent for reading the question paper you are not suppose to write any thing during cool-off time.
- Read the instructions carefully and attempt this questions.

Questions 1-3 carry 1 score each. Answer any 2.

1. In an electrolytic cell. Positive electrode is called

[anode, cathode]

2. Haematite is the ore of _____

3. Fill up suitably.

Mercury: Distillation

Tin: _____

Questions 4-6 carry 2 scores each. Answer any 2.

4.a. Which is the ore of aluminium?

b. Why is electricity used as the reducing agent in the manufacture of aluminium?

5.a. Sodium chloride in solid state is not a conductor of electricity. Why?

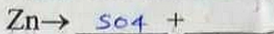
b. Which are the products formed at the anode and cathode when molten sodium chloride (NaCl) is electrolysed.

[P.T.O]

6. Consider the cell Zn-Cu

a. Identify the anode and cathode.

b. Complete the chemical equation of the reaction taking place at the zinc electrode. (Zn)



Questions 7-9 carry 3 scores each. Answer any 2.

7.a. What is meant by electrolysis?

b. Which are the products formed at the anode and cathode when sodium chloride solution is electrolysed?

8. Match columns A, B and C suitably.

A	B	C
Impurities are higher and ore particles are heavier	Magnetic Separation ②	Sulphide ores 3
Either the ore or the impurity is magnetic	Froth floatation 3	Ores of gold 1
Impurities are heavier and ore particles are lighter	Levigation 1	Magnetite 2

9.a. How does calcination differ from roasting?

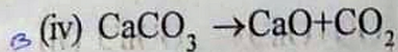
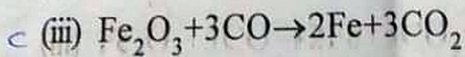
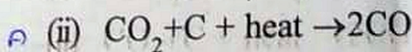
b. Which one of these methods is used to convert Cu_2S ore to Cu_2O ?

Question 10-12 carry 4 scores each. Answer any 2.

10. Silver is electroplated on an iron bangle.

- Which metal is connected to the positive terminal of the battery?
- Which metal is connected to the negative terminal of the battery?
- Which solution is used as the electrolyte?
- Which solution is used as electrolyte when copper is used for electroplating instead of silver?

11. The chemical equations of the reactions taking place inside the blast furnace during the manufacture of iron are given below.



- Which is the reducing agent used here?
- Which is the flux used in this process?
- Which reaction represents the reduction of ore?
- Which is the slag formed here?

12.a. Name the process in which impure copper is refined by electrolysis.

b. Identify the cathode and anode in this process.

c. Which is the electrolyte used here?