PART-A

1. What is reference electrode?.

2. Write any two uses of dry cell.

3. What is calcination?

4. Define gangue.

PART-B

5(a). The standard reduction potentials of Zn and Cu electrodes are -0.76 volts and + 0.34 volts respectively. Calculate the emf of the cell Zn / Zn +2 // Cu+2 / Cu.

----- OR -----

5(b). Describe the standard hydrogen electrode.

6(a). What is the composition of Nichrome? Write any two uses.

----- OR -----

6(b). Explain Electromagnetic separation method of concentration of ore.

PART-C

7(a). Distinguish between electrolytic cell and galvanic cell (any five).

----- OR -----

7(b). Define electrochemical series. Explain its significance.

8(a). Explain extraction of Iron from Hematite using flow chart

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8(b). Explain extraction of Aluminium from bauxite using flowchart.