



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions. (15x2=30)

- i. What are the advantages of polarography?.
- ii. What is effect of dilution of solution on specific conductance?.
- iii. Write down the at least Four advantages of DME.
- iv. What are sources of Electric Arc?
- v. Describe auxiliary electrode
- vi. Why electroanalytical techniques are superior than analytical methods.
- vii. Write down the limitations of Amperometry.
- viii. What do you mean by diffusion current in voltametry.
- ix. Describe the migration as a mode of mass transport in voltametry.?
- x. Differentiate between migration current and residual current.
- xi. How sputtering takes place at in Glow discharge?
- xii. What do you mean by cyclic voltammetry.
- xiii. What are polarizable and non-polarizable electrodes?
- xiv. What is specific Conductance?
- xv. How conductometry used in precipitation titrations?

Answer the following questions. (3x10=30)

Q.2(a) Discuss the types of electrodes in Polarography.

(b)-. Write a note on Automation.

Q.3(a) Discuss anodic stripping voltametry.

(b) Discuss different kinds of currents contributing to polarographic waves.

Q.4(a) Discuss biosensors using amperometric transducers

(b)- Write a note on conductometric titrations of strong acid with strong base as well weak base.