## 2<sup>nd</sup> Unit test (Question Bank)

# Class: All branches (First Sem K scheme) Basic Science BSC (311305)

## Unit V.Electrochemistry and metal corrosion

#### 2 marks question

- 1. State Faraday's first law of electrolysis. Give the equation and explain the terms.
- 2. Define ionization and electrolytic dissociation.
- 3. Define dry corrosion and wet corrosion.
- 4. State how the position of the metal in the galvanic series affects the rate of corrosion.

# 4 marks question

- 1. A given quantity of electricity is passed through two cells containing copper sulphate and silver nitrate solutions respectively. If 0.99 g of silver and 0.29 g of copper are deposited, find the equivalent weight of silver when that of copper is 31.6.
- 2. Explain electro refining of impure copper.
- 3. Describe hydrogen evolution mechanism in acidic medium with example
- 4. Explain cathodic protection using sacrificial anode

## Unit VI Engineering materials and catalysis

## 2 marks question

- 1. List the ingredients of paint.
- 2. Give 2 applications each of glass wool and thermocole.
- 3. State any 4 functions of a lubricant.
- 4. Define adhesive. Give 2 example of natural adhesive.

## 4 marks question

- 1. Differentiate between paint and varnish
- 2. Give the classification of polymers
- 3. Explain catalytic promotor and inhibitor with example
- 4. Define
  - i. Flash point
  - ii. Fire point
  - iii. Viscosity
  - iv. Saponification value