

Internal Test III

Date : 27/01/2022

Time : 2.30 pm - 3.15 pm

Max Marks : 15

Instructions : Answer all questions.

Draw diagrams and write relevant reactions wherever necessary

1) Write the cell representation, cell reaction and calculate the standard EMF of a

Ni-Ag cell if E°_{Ni} and E°_{Ag} are
-0.25 and 0.8V, respectively

(5)

2) Account for the following

i) Though Aluminium is with lower electrode potential than iron it ~~is~~ has higher corrosion resistance than iron in oxidizing environments

(6)

ii) Iron Boilers in copper vessel are undesirable

iii) Part of the nail inside the frame undergoes corrosion but the exposed part does not

3) With the help of neat labeled diagram explain UV-visible spectroscopy

(4)