

S. S. College, Hailakandi
Department of Chemistry
HOME ASSIGNMENT
CHEMISTRY, C-101-LAB
(Inorganic Chemistry- I)
Practical
FULL MARKS: 30

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Assignment No. 1

- a. Write a brief account on calibration of apparatus. **3**
- b. Calculate the amount of KmnO_4 required for preparing 0.1N 250 ml solution. **2**
- c. Calculate the amount of $\text{K}_2\text{Cr}_2\text{O}_7$ required for preparing 250 ml of centinormal solotution. **3**

Assignment No. 2

Outline the method of estimation of Fe (II) by KmnO_4 solution. Write down the theory, procedure and reactions involved in this method. **15**

(Seven Marks is allotted for regularity in classes)

CHEMISTRY LAB HONOURS 1ST SEMESTER

Course no. CHEMISTRY-C-102-LAB

Full marks 30

Pass marks 12

- Q.1 Write down the theory and procedure for the determination of the surface tension of an unknown solution at different concentrations. 6+6 = 12
- Q.2 Discuss buffer solution and how buffer works. 3+3=6
- Q.3 Discuss the theory and procedure for pH metric titration of strong acid versus strong base. 6+6=12

S. S. College, Hailakandi
Department of Chemistry
HOME ASSIGNMENT
CHEMISTRY, C-301-LAB
(Inorganic Chemistry- II)
Practical
FULL MARKS: 30

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Assignment No. 1

Discuss in detail the iodometric method of estimation of Cu (II) using sodium thiosulphate solution. Write down the theory, procedure and reactions involved in this process. **14**

Assignment No. 2

Outline the method preparation of chrome alum. **7**

Assignment No. 3

What are SEM and TEM? **5**

(Four Marks is allotted for regularity in the classes)

TDC (CBCS) Odd Sem Practical Exam-2020

CHEMISTRY

3rd Semester (Core)

Course No- CHMHCC-302 L

Full Marks: - 30

Pass Marks: - 12

Attempt the following questions:-

3x10=30

1. Write about the qualitative analysis and detection of functional group for compound containing aldehydic (CHO) group. Also write about preparation of one of its derivative.
10
2. Write about acetylation of amines. Discuss the laboratory method for the preparation of a derivative of aniline via acetylation.
10
3. Write about nitration of acetanilide. Discuss the laboratory method for the preparation of m-dinitrobenzene from nitrobenzene.
10

CHEMISTRY LAB HONOURS

Course No. CHEMISTRY-C-303-LAB

Full marks 30 Pass marks 12

Q.1 Discuss the principle and procedure of the study of the equilibrium of the following reaction by the distribution method:



Q.2 Explain the theory and procedure of the study of the kinetics of the Integrated rate method:
Acid hydrolysis of methyl acetate with hydrochloric acid. 6+6=12

Q.3 Write a short note on saponification of Ethyl acetate. 6

CHEMISTRY LAB 5TH SEMESTER

Course No.CHEMISTRY-DSE-501-LAB

Full marks 30

Pass marks 12

Q.1 Write about the theory of Paper chromatography and separation of metal ions using paper chromatography. 5+5=10

Q.2 Discuss the pH of the fruit juices, shampoos and soaps. 10

Q.3 i)Write about the theory of TLC.

ii) Discuss the theory of Flame photometric technique. 5+5=10