

B.Sc. II Year
Paper XIV (CH-207) Practicals

M.Marks:60

Time: 7 Hrs.

(One day in two sessions i.e. 9:00AM-12:30PM and 1:30PM-5:00PM)

Section-A (Inorganic)

1.Gravimetric Analysis:

Quantitative estimations of, Cu^{2+} as copper thiocyanate, Ni^{2+} as Ni – dimethylglyoxime and Al^{3+} as oxinate.

2. Colorimetry:

To verify Beer - Lambert law for $\text{KMnO}_4/\text{K}_2\text{Cr}_2\text{O}_7$ and determine the concentration of the given $\text{KMnO}_4/\text{K}_2\text{Cr}_2\text{O}_7$ solution.

3.Preparations: Preparation of Cuprous chloride, tetra ammine cupric sulphate, chrome alum, potassium trioxalatochromate(III) and Nickel Hexammine chloride.

Section-B (Physical)

1. To determine the CST of phenol – water system.
2. To determine the solubility of benzoic acid at various temperatures and to determine the ΔH of the dissolution process.
3. To determine the enthalpy of neutralisation of a weak acid/weak base vs. strong base/strong acid and determine the enthalpy of ionisation of the weak acid/weak base.
4. To determine the enthalpy of solution of solid calcium chloride.
5. To study the distribution of iodine between CCl_4 and water.
6. Determine rate constant of hydrolysis of $\text{CH}_3\text{COOC}_2\text{H}_5$.

Section-C (Organic)

Systematic identification (detection of extra elements, functional groups, determination of melting point or boiling point and preparation of at least one pure solid derivative) of the following simple mono and bifunctional organic compounds: Naphthalene, anthracene, acenaphthene, benzyl chloride, *p*-dichlorobenzene, *m*-dinitrobenzene, *p*-nitrotoluene, resorcinol, hydroquinone, α -naphthol, β -naphthol, benzophenone, ethyl methyl ketone, benzaldehyde, vanillin, oxalic acid, succinic acid, benzoic acid, salicylic acid, aspirin, phthalic acid, cinnamic acid, benzamide, urea, acetanilide, benzanilide, aniline hydrochloride, *p*-toluidine, phenyl salicylate (salol), glucose, fructose, sucrose, *o*-, *m*-, *p*-nitroanilines, thiourea.

Distribution of marks

1.	Section A	15 marks
2.	Section B	15 marks
3.	Section C	15 marks
4.	Viva-voce	05marks
5.	Lab Record	10 marks

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KURUKSHETRA UNIVERSITY, KURUKSHETRA

(Established by the State Legislature Act XII of 1956)

B. Sc IInd Year EXAMINATION, 200 July 2022

PRACTICAL ATTENDANCE CHART

Chart for Preparing List of each group for Practicals in Science and other Subjects.

Centre for Written Examination I. G. N College Ladwa

Centre for Practical Examination I. G. N College Ladwa

Subject CHEMISTRY (CH207) Date 06-07-2022

Group — Time 9:00AM-5:00PM

Sr.No.	Roll No.	Signature of the Candidate before the Principal	Signature of the Candidate before the Practical Examiner
1	110133101	Kajal	Kajal
2	201037701	Narween Kaur	Narween Kaur
3	201037703	Jyoti	Jyoti
4	201037707	Saraswati	Saraswati
5	201037708	Partek	Partek
6	201037710	Sheetal	Sheetal
7	201037711	Diksha Sharma	Diksha Sharma
8	201037714	Vijay Singh	Vijay Singh
9	201037715	Mahesh Kumar	Mahesh Kumar
10	201037716	Mkaur	Mkaur
11	201037717	Annu Devi	Annu
12	201037718	Samyati	Samyati
13	201037723	Pranav	Pranav
14	201037725	Addi	Addi
15	201037726	Ajay	Ajay
16	201037730	Lakshita	Lakshita
17	201037731	Dheeraj	Dheeraj
18	201037735	Nasihat Rani	Nasihat Rani
19	201037737	Deepanshi	Deepanshi
20	201037738	Muskan Rani	Muskan Rani
21	201037739	— ABSENT	— ABSENT —
22	201037743	— ABSENT	— ABSENT —

Total No. of Candidates allotted by the Principal 22

Total No. of Candidates examined by the Examiner 20

Total No. of Candidates absent in the Practical Examination 02

Signature of Principal

Address Offg. Principal
Indira Gandhi National College
LADWA Distt. Kurukshetra

Signature of Practical Examiner

Address Dept. of Chemistry
I.B. College
Signature & Address of the Co-Examiner (if any) Ms. KIRNA DEVI

Chem Dept. I.G.N College Ladwa

(To be sent to the Deputy/Asstt. Registrar (Secrecy) alongwith Award-Lists in the Confidential Envelope (ES-(42)(5).)