

B.Sc. I Year
Paper-VII (CH-107) 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)

Volumetric Analysis

1. Preparation of reference solutions.
2. **Redox titrations:** Determination of Fe^{2+} , $\text{C}_2\text{O}_4^{2-}$ (using KMnO_4 , $\text{K}_2\text{Cr}_2\text{O}_7$)
3. **Iodometric titrations:** Determination of Cu^{2+} (using standard hypo solution).
4. **Complexometric titrations:** Determination of Mg^{2+} , Zn^{2+} by EDTA.

Paper Chromatography

Qualitative Analysis of any one of the following Inorganic cations and anions by paper chromatography (Pb^{2+} , Cu^{2+} , Ca^{2+} , Ni^{2+} , Cl^- , Br^- , I^- and PO_4^{3-} and NO_3^-).

Section-B (Physical)

1. To determine the surface tension of at least two liquids using stalagmometer by drop no. and drop weight methods (Use of organic solvents excluded).
2. To study the effect of surfactant on surface tension of water.
3. To determine the viscosity of at least two liquids by using Ostwald's viscometer (Use of organic solvents excluded).
4. To determine the specific refractivity of at least two liquids.

Section-C (Organic)

1. Preparation and purification through crystallization or distillation and ascertaining their purity through melting point or boiling point
 - (i) Iodoform from ethanol (or acetone)
 - (ii) *m*-Dinitrobenzene from nitrobenzene (use 1:2 conc. HNO_3 - H_2SO_4 mixture if fuming HNO_3 is not available)
 - iii) *p*-Bromoacetanilide from acetanilide
 - iv) Dibenzalacetone from acetone and benzaldehyde
 - v) 2,4-DNP derivative of Benzophenone/Acetophenone.
2. To study the process of (i) sublimation (ii) Crystallization of camphor and phthalic acid

Distribution of marks

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

4723-5000-K.U.K

KURUKSHETRA UNIVERSITY, KURUKSHETRA

(Established by the State Legislature Act XII of 1956)

BSc Ist 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 (CH-07) Date 04-07-2022

Group I 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	210037707	Himanshu	Himanshu	Himanshu
2	210037709	Simran	Simran	Simran
3	210037713	Arman Malda	Arman Malda	Arman Malda
4	210037714	Jhankar	Jhankar	Jhankar
5	210037715	Muskan	Muskan	Muskan
6	210037716	Nusdeen	Nusdeen	Nusdeen
7	210037717	Haash Saini	Haash Saini	Haash Saini
8	210037718	Mahak	Mahak	Mahak
9	210037722	Himanshu	Haini	Haini
10	210037723	Simran Deep	Simran Deep	Simran Deep
11	210037726	Sneh	Sneh	Sneh
12	210037728	Tamanna	Tamanna	Tamanna
13	210037729	Deepwala	Deepwala	Deepwala
14	210037731	Tamanna Sharma	Tamanna Sharma	Tamanna Sharma
15	210037733	Panbj	Panbj	Panbj
16	210037735	Prince Kumar	Prince Kumar	Prince Kumar
17	210037737	Aarti	Aarti	Aarti
18	110588601	Mahak	Mahak	Mahak

Total No. of Candidates allotted by the Principal 18

Total No. of Candidates examined by the Examiner 18

Total No. of Candidates absent in the Practical Examination NIL

Signature of Principal
Dr. Principal
 Indira Gandhi National College
 LADWA Dist. Kurukshetra

Signature of Practical Examiner
 Address Dr. Vikram Kumar
 Chem. Dept. I.B. College Panipat
 Signature & Address of the Co-Examiner (if any)
Dr. Amit Kumar
 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).)

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KURUKSHETRA UNIVERSITY, KURUKSHETRA

(Established by the State Legislature Act XII of 1956)

B.Sc. Ist 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 (CH-107) Date 05-07-2022

Group II Time 9:00 AM - 5:00 PM

Sr.No.	Roll No.	Signature of the Candidate before the Principal	Signature of the Candidate before the Practical Examiner	Signature of the Candidate before the Practical Examiner
1	210037701	Mahak Sharma.	Mahak Sharma	Mahak Sharma
2	210037703	Siya	Siya	Siya
3	210037705	Aniket Awasthi	Aniket	Aniket
4	210037708	Simran Kaur	Simran Kaur	Simran Kaur
5	210037712	Swigal	Swigal	Swigal
6	210037721	Shivani	Shivani	Shivani
7	210037724	ABSENT	ABSENT	ABSENT
8	210037725	Dheeraj	Dheeraj	Dheeraj
9	210037727	Sanjana Devi	Sanjana Devi	Sanjana Devi
10	210037730	Bhivam	Bhivam	Bhivam
11	210037736	Sonali	Sonali	Sonali
12	210037738	Kamaljit Kaur	Kamaljit Kaur	Kamaljit Kaur
13	210037739	Shivani	Shivani	Shivani
14	210037743	Ritika	Ritika	Ritika
15	210037745	Ajay	Ajay	Ajay

Total No. of Candidates allotted by the Principal 15

Total No. of Candidates examined by the Examiner 14

Total No. of Candidates absent in the Practical Examination 01

Signature of Principal
 Address
[Signature]
Offg. Principal
Indira Gandhi National College
LADWA Distt. Kurukshetra

Signature of Practical Examiner
 Address Dr. Vikram Kumar
Chem. Deptt. I.G.N. College Panipat
 Signature & Address of the
 Co-Examiner (if any) [Signature]
Dr. Amit Kumar
Chem. Deptt. I.G.N. College Ladwa

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