### <u>Kurukshetra University Kurukshetra</u> <u>Scheme and Syllabi</u>

# for B.Sc. Part-I, Part-II and Part-III (Chemistry) w.e.f. 2014-2015, 2015-2016 and 2016-2017

#### **B.Sc. Part-I (Ist Semester)**

Paper	Code No.	Nomenclature	Max. Marks	Time
No.			Written + $I.A^{\#}$ .	
I	CH-101	Inorganic Chemistry (Th)*	32 + 8	3 hrs.
II	CH-102	Inorganic Chemistry (Th)	32 + 8	3 hrs.
III	CH-103	Organic Chemistry (Th)	32 + 8	3 hrs.

<sup>\*</sup>Th means Theory, # I.A. means Internal Assessment.

#### **B.Sc. Part-I (IInd Semester)**

Paper	Code No.	Nomenclature	Max. Marks	Time
No.			Written + I.A.	
IV	CH-104	Inorganic Chemistry (Th)	32 + 8	3 hrs.
V	CH-105	Physical Chemistry (Th)	32 + 8	3 hrs.
VI	CH-106	Organic Chemistry (Th)	32 + 8	3 hrs.
VII	CH-107	Practicals	60	7 hrs.
			( No Internal	
			Assessment	
			in Practical	
			Exam)	

Note: Practical Exam will be held at the end of  $2^{nd}$  Semester Total Marks of I & II Semesters = 120 + 120 + 60 = 300

#### **B.Sc. Part-II (IIIrd Semester)**

Paper	Code No.	Nomenclature	Max. Marks	Time
No.			Written + I.A.	
VIII	CH-201	Inorganic Chemistry (Th)	32 + 8	3 hrs.
IX	CH-202	Physical Chemistry (Th)	32 + 8	3 hrs.
X	CH-203	Organic Chemistry (Th)	32 + 8	3 hrs.

**B.Sc. Part-II (IVth Semester)** 

Paper	Code No.	Nomenclature	Max. Marks	Time
No.			Written + I.A.	
XI	CH-204	Inorganic Chemistry (Th)	32 + 8	3 hrs.
XII	CH-205	Physical Chemistry (Th)	32 + 8	3 hrs.
XIII	CH-206	Organic Chemistry (Th)	32 + 8	3 hrs.
XIV	CH-207	Practicals	60	7 hrs.
			( No Internal	
			Assessment in	
			Practical Exam)	

Note: Practical Exam will be held at the end of 4th Semester Total Marks of III & IV Semesters = 120 + 120 + 60 = 300

**B.Sc. Part-III (Vth) Semester** 

Paper	Code No.	Nomenclature	Max. Marks	Time
No.			Written + I.A.	
XV	CH-301	Inorganic Chemistry (Th)	32 + 8	3 hrs.
XVI	CH-302	Physical Chemistry (Th)	32 + 8	3 hrs.
XVII	CH-303	Organic Chemistry (Th)	32 + 8	3 hrs.

### **B.Sc. Part-III (VIth Semester)**

Paper	Code No.	Nomenclature	Max. Marks	Time
No.			Written + I.A.	
XVIII	CH-304	Inorganic Chemistry (Th)	32 + 8	3 hrs.
XIX	CH-305	Physical Chemistry (Th)	32 + 8	3 hrs.
XX	CH-306	Organic Chemistry (Th)	32 + 8	3 hrs.
XXI	CH-307	Practicals	60	7 hrs.
			( No Internal Assessment in	
			<b>Practical Exam</b> )	

Note: Practical Exam will be held at the end of 6<sup>th</sup> Semester

Total Marks of V & VI Semesters = 120 + 120 + 60 = 300TOTAL MARKS OF CHEMISTRY in B.Sc. degree =  $300 \times 3 = 900$ 

#### 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  $Fe^{2+}$ ,  $C_2O_4^{2-}$  (using KMnO<sub>4</sub>,  $K_2Cr_2O_7$ )
- **3. Iodometic titrations:** Determination of Cu<sup>2+</sup> (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  $(Pb^{2+}$ ,  $Cu^{2+}$ ,  $Ca^{2+}$ ,  $Ni^{2+}$ ,  $Cl^-$ ,  $Br^-$ ,  $l^-$  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-Dinitrobenzne 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

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

#### 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<sup>2+</sup> as copper thiocyanate, Ni<sup>2+</sup> as Ni – dimethylglyoxime and Al<sup>3+</sup>as oxinate.

#### 2. Colorimetry:

To verify Beer - Lambert law for  $KMnO_4/K_2Cr_2O_7$  and determine the concentration of the given  $KMnO_4/K_2Cr_2O_7$  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 ▲ H 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<sub>4</sub> and water.
- 6. Determine rate constant of hydrolysis of CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub>.

#### 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,  $\alpha$ -naphthol,  $\beta$ -naphthol, benzophenone, ethyl methyl ketone, benzaldehyde, vanillin, oxalic acid, succinic acid, benzoic acid, salicyclic 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

#### B.Sc. III Year Paper-XXI (CH-307) Practicals

Max.Marks:60 Time: 7 Hrs.

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

Semimicro qualitative analysis of mixture containing not more than four radicals (excluding interfering, Combinations and insoluables):

#### Section-B (Physical)

- 1. To determine the strength of the given acid solution (mono acid only) conductometrically.
- 2. To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically.
- 3. To determine the strength of given Ferrous ammonium sulphate solution potentiometrically.
- 4. To determine the molecular weight of a non-volatile solute by Rast method.
- 5. Prepration of acidic and basic buffers and comparison of their pH with theoretical values.
- 6. To determine the specific rotation of optically active substance (any two).

#### **Section-C (Organic)**

#### 1. Thin Layer Chromatography

(Determination of  $R_f$  values and identification of organic Compounds)

Separation of a mixture of coloured organic compounds using common organic solvents.

- 2. To separate the binary liquid mixtures using distillation.
- 3. Synthesis of the following organic compounds:
  - (a) To prepare salicylic acid from Aspirin.
  - (b) To prepare p-bromoaniline from p-bromoacetanilide.
  - (c) To prepare m-nitroaniline from m-dinitrobenzene.
  - (d) To prepare S-Benzyl-iso-thiouronium chloride from Thiourea.

#### **Distribution of marks**

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

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

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5	5367101	Kajni Koni	Razni Rani	Rajni Rani
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Co-Examiner (if any)

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5	5367135	Shilpa	Selpa	Snigha	
6	5367/36	Nisha Devi	Nisha Dovi	Nisha Dev	
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Signature of Principals

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Address Printing | Address DR PRARIET KAUK |

Indira Gandhi National College

Indira Gandhi National College

Signature & Address of the Co-Examiner (if any) Young Part |

No. Raman PREET KAUR

T. G. N. College (ADW)

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Address DR PRARIET KAUR

Signature & Address of the Co-Examiner (if any) Young Part |

No. Raman PREET KAUR

T. G. N. College (ADW)

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Signature & Address of the Co-Examiner (if any) Young Part |

No. Raman PREET KAUR

T. G. N. College (ADW)

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Signature of Practical Examiner (2016)

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14	6367115	Tom MILL	Toma Puth	Tures !
15	6367116	Blanti	Bhardi	Chart-
16	6367117	Anita	Anita	Anita
17	6367118	Kajal	Kayal	Kajal
19	6367119	Rider Devi	Ridupevi	Ridu Devi
19	6367120	Neha	Neha	Neha
20	6367121	Kalpha	Kalbra	Kalpha
31	6367 122	Chawna lani	Phainer	Bhawna
23	6367 123	Shruto	Shouli	Shouti

Signature of Principal
Adoption pal
— Indira Gandhi National College
— College College

Signature of Practical Examiner No. Address NANIET RANI Signature & Address of the Co-Examiner (if any)

TON CHIEGE LADEA

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KURUKSHETRA UNIVERSITY, KURUKSHETRA

(Established by the State Legislature Act XII of 1956)

(Examination, 2007)

PRACT	TICAL ATTENDANCE CHART
	for Practicals in Science and other Subjects
Centre for Written Examination	an collage ( polary
Centre for Practical Examination	want ladge
Subject Chemistel	Date 23 4-17 (ME)
Group R	Time 4 AM - 1) AM . 2 PM - 5 PM
Co No   Dall Ma   Signature	of the Candidate before   Signature of the Cand

Sr No	Roll No	Signature of the Candidate before the Principal	Signature of the Candidate before the Practical Examiner	
1	6367124	Shiwani	shiwani	Shiwaw'
2	6361125	Palak	Palak	Palak
3	6361126	Keycel	Kapl	iglal
4	6367127	Variable Komera	Kashal Ramari Kumeri	Parker Metal
5	6367138	Summer Devi	-unanperi	man Deri
6	6367 129	Gower Scini	Gener Sain	Course for
7	6367131	Alka Romi	Alka Rani	Alkakani
8	6367132	Kesjal	Ko.fal	Kefal
9	6367133	Payar Rani	Payal Rawi	Payer Rom'
10	6 36 7134	Ritu Rani	Ritu Ram	Pitu Rani
11	6367135	Neesu Devi	Aleesu Devi	Neeru Dev
12	6367136	kajal Sanjara		Kafal
13	6367137	Sarjara	Satjana	Solyans
14	6367138	Sachin Kumeer	Corbin Kumen	Sophia kamar
15	6367139	Simian	Singer	Similar
16	6367140	(Jodos	Ryce	(And co
17	6361141	Nancy	Nancy	Nancy
18	6367142	Arkerh.	Ankurh	Ankush.
19	6367146	Payal	Payal	Payal
20	6367149	Sauvreet	Saureet	Sarviert
21	6367149	loman	Panam	loonam.

Total No. of Candidates allotted by the Principal	Total No. of Candidates examined by the Examiner
Signature of C incipal Add (2) Principal Trollera Gundla National College	Signature of Practical Examiner Address MANTET RANT MIN COLLEGE YAMUNANGGAR Signature & Address of the College Co-Examiner (if any)  RAMANPREEL KAUR
(To be and to the Deputy/Asstt Registrar (Secrecy) Envelope (£S-(42)(5)	T / Al collect

4723-50,000-K.U.K

## KURUKSHETRA UNIVERSITY, KURUKSHETRA

B St -7 April EXAMINATION, 209 7

#### PRACTICAL ATTENDANCE CHART

Chart for Preparing List of each group for Pract	ticals in Science and other Subjects
Centre for Written Examination I . Co. At. C	offene ladin
Subject Chemistry	College Ladica
Subject Chemister	Date 02 (114/2017 / MI-E
Group (	_Time

Sr No	Roll No	Signature of the Candidate before the Principal	Signature of the the Practical Exar	
1	6367153	relate	Heliak	Heliak
2	6367155	Koma Roni	Komal Rani	Komal Kar
3	6367158	Mahak Laini	righak Saini	Mahak Sain
4	6367159	Sahl	Souhel	Sahal
5	6367/60	Hanishs	Manishs	Manisha
6	6367/6/	Killing .	Went.	With
7	6367/62	Shokhs	Sheles	Shebish
.9	6367/63	land, dance	taulibour	1- 1- 1- 10
9	6367164	Ko-jal	Kajal	Kusal
10	6367/65	Shtg .	Ekok	Ekta
11	6367 166	Similar	Sinnan	Simeran
12	6367 167	Aguti*	Aarti	Lauth"
	6367 168	Navita	Navita	Navida
	6367/69	(VX.	(8000	Ber.
	6367/70	Sanil	Scenic	Jani C
	6367/7/	harman	Harmas	Horman
	6367/72	Showing	Shiwaj	Shivey
	6367/73	Rahu!	Rahul	Rahul
	6367174	Money	Many	Mony
	0 6367175	Awa	Anil	ANUIS
1	1	-/-	/	
	1		No of Candidates e	yaminad by

Total No of Candidates allotted by the Principal

Total No of Candidates examined by the Examiner 30.

Total No of Candidates absent in the Practical Examination 11.

Signature of Principal
Adquis
Principal
I liva Ganala National College

Signature of Practical Examiner

Address MANTET RANI

MINOCOLLEGE, YARRUNANAGAR

Signature & Address of the

Co-Examiner (if any)

RAMANPRET KAUR

7 (SN. COLLEGE LADDRA

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(Established by the State Legislature Act XII of 1956)

PRACTICAL ATTENDANCE CHART	PRACTICAL	ATTENDAN	CE CHART
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Chart for Preparing List of each group for Practicals in Science and other Subjects			
Centre for Written Examination 1.C.	m caller cadesor		
Centre for Practical Examination	THE LONGTHORY		
Subject _ Chemistry	Date 15.4.17. (M'8)		
Group 5	Time 9 Am - 12 Am 9 Pm - 500		

Sr No	Roll No	Signature of the Candidate before the Principal	Signature of the Candid the Practical Examiner	fate before
1	6367176	Shweta Devi	Shweta Devi	Shwetabe
2	6367177	ABSENT		
3	6361178	Hukel 4	Mukesh	phykesh.
4	6367179	Verstree	pershe.	1145/19.
5	6367180	ABSENT-		
6	6367181	Amon	(mach)	Ameria
7	6367182	tikelethi:	Atolo	Ablah
9	6367185	ABSEN	1	
9	6367187	- ABSEN	1	
10	6367 188	- ABSENT		
11	6367 189	- ABSENT		
12	6367191	Gardeek	(Auxdeep	Sudgep
13	6367192	Pigniley Stragh	ABSENT .	
14	6367193	in the same	Similar.	Simum
15	6367194	AmaRudeen	AZHARYJEGI	ACHARINE
16	6367195	Ankush	Ankusk	Ankush
17	6367 196	- ABSENT		
18	6367 197	Robin	Robin	Robin
19	6367 198	- ABSEN		
20	6367199	Anjaci	Anjali	Anjali
31	6367200	ABSENT-	J	J
-			No do distance	

Signature of 1° incipal
Aderiucipal
Indira Gandla National College

Total No. of Candidates examined by the Examiner 12.
Total No. of Candidates absent in the

Total No. of Candidates absent in the Practical Examination

Signature of Practical Examiner

Address MANJEFT RANI

OTHER YAMMANAGAR

Signature & Address of the

Co-Examiner (if any)

RAMANPREET KAUR

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