

MSC CHEMISTRY I SEMESTER - PRACTICAL EXAMINATION

SCHEME OF EVALUATION

M.Sc previous sem-I

Paper V (Inorganic Chemistry), Code: CH(IC)-151P

Evaluation Steps	Allotment of Marks
Principle	10
(i) Synthesis of metal complex	05
(ii) Its geometrical properties	05
Estimation of metal ion by Volumetric titration:	
Part A	15
Part B	25
Samples	05
Record + Viva	10
Total marks	75

Paper VI (Organic Chemistry), Code: CH(OC)-152P

Evaluation Steps	Allotment of Marks
Principle / Mechanism	10
Experimental skill, Crude product yield	25
Recrystallization	05
Record, samples & Viva	10
Total marks	50

Paper VII (Physical Chemistry), Code: CH(PC)-153P

Evaluation Steps	Allotment of Marks
Principle and brief procedure	10
Experiment	20
Tabulation of result	10
Graphs	10
Calculations	05
Result	05
Record	05
Viva	10
Total marks	75

*Minimum pass marks: 50 % for each paper

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MSC CHEMISTRY II SEMESTER - PRACTICAL EXAMINATION

SCHEME OF EVALUATION

M. Sc (previous) SEM - II

Paper V (Inorganic Chemistry), Code: CH(IC)-251P

S.No	Evaluation Steps	Allotment of Marks
1.	Principle of Experiment	10
2.	Gravimetric Analysis	20
3.	Volumetric Analysis	
	Part I	5
	Part II	10
	Part III	20
4.	Record +Viva	10
	Total Marks	75

Paper VI (Organic Chemistry), Code: CH(OC)-252P

Evaluation Steps		Allotment of Marks
Spectral Problem		15
Analysis	M.P / B.P	3
	Ignition	3
	Extra elements	10
	Solubility	8
	Functional group test	10
	Derivatives	8
	Report	3
Record & Viva		15
Total marks		75

Paper VII (Physical Chemistry), Code: CH(PC)-253P

Evaluation Steps	Allotment of Marks
Principle	05
Experiment & Tabulation of result	25
Graph	05
Calculations & Result	05
Record	05
Viva	05
Total marks	50

***Minimum pass marks: 50 % for each paper**


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M.Sc, Chemistry II Semester Practical Examination, May-2018
Scheme of Evaluation

Paper-V (Inorganic Chemistry) Paper Code: CH(IC)-251P Time: 4 Hrs

Evaluation Steps	Allotment of Marks
Principle	10
Major Experiment (i) Analysis of Two Component Mixture/Three Component Mixture	35
Major Experiment (ii) Applied Titrimetric Analysis	20
Record+Viva	10
Total Marks	75

Paper-VI (Organic Chemistry) Paper Code: CH(OC)-252P Time: 4 Hrs

Evaluation Steps	Allotment of Marks
I. Analysis of Organic Compounds	
(i) B.P/M.P	04
(ii) Ignition Test	03
(iii) Solubility	10
(iv) Extra Elements	10
(v) Functional Group Test	10
(vi) Derivatives	10
(vii) Report	03
II. Spectral Analysis	10
Record+Viva+Samples	15
Total Marks	75

Paper-VII (Physical Chemistry) Paper Code: CH(PC)-253P Time: 4 Hrs

Evaluation Steps	Allotment of Marks
Principle	05
Experiment+Tabulation	25
Graphs	05
Calculations+Results	05
Viva	05
Record	05
Total Marks	50

Note: Minimum Marks for Pass 50%

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MSC CHEMISTRY III SEMESTER - PRACTICAL EXAMINATION

SCHEME OF EVALUATION

M. Sc ^{Final IC} ~~previous~~ sem - III

Paper V (Inorganic Chemistry), Code: CH(IC)-351P

Paper Title: Synthesis and Characterization of Metal complexes

Evaluation Steps	Allotment of Marks
Principle	10
(i) Synthesis of metal complex	30
(ii) Its spectral and geometrical properties	25
Analysis of a metal complex by chemical methods	20
Samples	05
Record + Viva	10
Total marks	100

SEM - IV

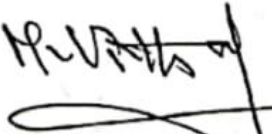
Paper VI (Inorganic Chemistry), Code: CH(IC)-352P

Paper Title: Electro-analytical Techniques

Evaluation Steps	Allotment of Marks
Principle	10
Major Experiment	
(i) Acquisition of Experimental data	30
(ii) Plotting graphs	10
(iii) Calculations	10
Minor Experiment	
(i) Acquisition of Experimental data	20
(ii) Plotting graphs	05
(iii) Calculations	05
Record + Viva	10
Total marks	100

*Minimum pass marks: 50 % for each paper


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MSC CHEMISTRY IV SEMESTER - PRACTICAL EXAMINATION
SCHEME OF EVALUATION

Paper V (Inorganic Chemistry), Code: CH(IC)-451P

Paper Title: Spectroscopic techniques

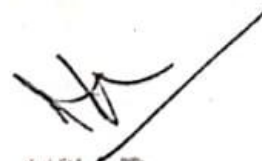
S.No	Evaluation Steps	Allotment of Marks
1.	Principle of Experiment	10
2.	Major Experiment	
	(i) Acquisition of Experimental Data	30
	(ii) Plotting of graphs	10
	(iii) Calculations	10
3.	Minor Experiment	
	(i) Acquisition of Experimental Data	20
	(ii) Plotting of graphs	05
	(iii) Calculations	05
4.	Record +Viva	10
	Total Marks	100

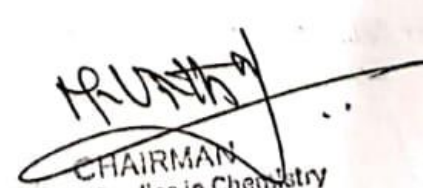
Paper VI (Inorganic Chemistry), Code: CH(IC)-452P

Paper Title: Structural Assignment of Metal Complexes from Physico Chemical Data & Conventional Methods of Analysis

S.No	Evaluation Steps	Allotment of Marks
1.	Principle of Experiment	10
2.	Conventional methods of Analysis	60
3.	Structural Assignment of Metal Complexes from Physico-Chemical Data	20
4.	Record +Viva	10
	Total Marks	100

***Minimum pass marks: 50 % for each paper**


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M.SC. CHEMISTRY III SEMESTER PRACTICAL EXAMINATION, DECEMBER 2018

SCHEME OF EVALUATION

Paper V (Organic Chemistry) Paper Code: CH (OC)-351P Time: 6 hrs

Paper Title: Separation and Identification of Organic compounds

Evaluation Steps	Allotment of Marks
Report the separating Reagent/ Flow chart separation for any given binary mixture	10 +10 = 20
Physical characters of the components	
MP/BP	03 x 2 = 06
Ignition Test	02 x 2 = 04
Extra Elements	10 x 2 = 20
Solubility	05 x 2 = 10
Identification of functional group tests 2	04 x 2 = 08
Preparation of Derivatives 2	04 x 2 = 08
Recrystallization of Derivatives 2	02 x 2 = 04
Samples, Record and Viva	5 + 15 = 20
Total Marks	100

Paper VI (Organic Chemistry) Paper Code: CH (OC)-352P Time: 6 hrs

Paper Title: Synthesis of organic molecules & isolation of natural products

Evaluation Steps	Allotment of Marks
Principle/ Mechanism	10
Experimental Skill	40
Recrystallization	20
TLC & monitoring	10
Samples, Record and Viva	5 + 15 = 20
Total Marks	100

(Minimum marks for pass: 50%)

Scheme of evaluation
M.Sc. IV Semester: Organic Chemistry

Paper V CH (OC) 451P: Spectroscopic identification of organic compounds & practice of Chemistry software programmes

CHEN DRAW/Drawing graph in EXCEL*	10
Spectral problems (Two problems have to be solved):	2X35= 70
Record and Viva-voce	20
Total=100	

*Student has to draw the structure/ graph given by the examiner.

Paper VI CH (OC) 452P: Synthesis and Analysis of Drugs

Drug synthesis

Principle	10
Synthesis	30

Drug analysis

Principle	10
Estimation	
Step-I	05
Step-II	10
Step-III	10
Calculations	05
Record and viva	20
Total	100

Ch. Sarah Bai
15/05/2018
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M.SC. CHEMISTRY III SEMESTER PRACTICAL EXAMINATION, DECEMBER 2018

SCHEME OF EVALUATION

Paper V (Physical Chemistry)

Paper Code: CH (PC)-351P &
451P

Time: 6 hrs

Evaluation Steps	Allotment of Marks
Experiment	40
Tabulation of Result	10
Graphs	20
Calculations	05
Result	10
Record	05
Viva	10
Total Marks	100

Paper VI (Physical Chemistry)

Paper Code: CH (PC)-352P & 451P

Time: 6 hrs

Evaluation Steps	Allotment of Marks
Experiment	40
Tabulation of Result	10
Graphs	20
Calculations	05
Result	10
Record	05
Viva	10
Total Marks	100

(Minimum marks for pass: 50%)