SECOND YEAR B PHARM

SCHEME OF *PRACTICAL* EXAMINATION
& SCHEME OF VALUATION
(from 2010 admission onwards)

Pharmaceutical Chemistry - III

(Advanced Organic Chemistry)

(Time : 4 hrs , Max Marks for Practical : 70, Max. Marks for Viva:30 marks)

1. Synopsis- 15 marks

Three questions of 5 marks each.

a) Any one principle for preparation - 5 marks
b) Any one principle behind the estimation - 5 marks
c) Use of stereo model - 5marks

II. **Major experiment** **35 marks**

a) Standardization (10 marks)
   (i) Weighing of sample - 5 marks
   (ii) Normality determination - 5 marks
b) Estimation (25 marks)
   Five different ranges for percentage error should be calculated

Evaluation of assay done based on percentage error of result

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0 %	-	1% error	-	25 marks
1%	-	2% error	-	23 marks
2%	-	3% error	-	20 marks
3%	-	5% error	-	15 marks
5%	-	10% error	-	10 marks

Above 10% error, 5 marks to be given provided candidate has performed experiment correctly

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III. Minor experiment -Preparation **20 marks**

Mark distribution
Colour-2
Odour-2
Dryness-2
Texture-4
Yield-10

IV. Viva voce **30 marks**

Pharmaceutical Analysis -I

(Time : 4 hrs , Max Marks for Practical : 70, Max. Marks for Viva:30 marks)

1. SYNOPSIS **15 marks**

Three questions carrying 5 marks each.

Principle involved in the experiments mentioned in the syllabus

2. MAJOR EXPERIMENT **35 marks**

(a)STANDARDIZATION 15 marks

General presentation such as observation columns, calculations 3 marks

Evaluation of result

0 %	-	1% error	-	12 marks
1%	-	2% error	-	10 marks
2%	-	3% error	-	8 marks
3%	-	5% error	-	6 marks
5%	-	10% error	-	4 marks

Above 10% error, 2 marks to be given provided candidate has performed experiment correctly .

(b) ASSAY **20 marks**

General presentation such as observation columns, calculations 2 marks

Evaluation of result

0 %	-	1% error	-	18 marks
1%	-	2% error	-	15marks
2%	-	3% error	-	12 marks
3%	-	5% error	-	9 marks
5%	-	10% error	-	6 marks

Above 10% error, 3 marks to be given provided candidate has performed experiment correctly

(III) MINOR EXPERIMENT (20 marks)

ESTIMATION **20 marks**

Strength of the titrant solution to be provided

General presentation such as observation columns, calculations 2 marks

Evaluation of result

0 %	-	1% error	-	18 marks
1%	-	2% error	-	15marks
2%	-	3% error	-	12 marks
3%	-	5% error	-	9 marks
5%	-	10% error	-	6 marks

Above 10% error, 3 marks to be given provided candidate has performed experiment correctly.

IV. Viva voce **30 marks**

Pharmaceutics –II
(Physical Pharmacy)

(Time : 4 hrs , Max Marks for Practical : 70, Max. Marks for Viva:30 marks)

1. Synopsis (7.5 marks each) **(15 marks)**

Principle & procedure of ANY two experiments **.**

2. ONE major experiment **(35 marks)**

Include ,

a. Determination of rates of reaction
b. Preparation of emulsion & globule size analysis
c. Effect of glidants and lubricants on angle of repose

3. ONE minor experiment **(20 marks)**

Include,

(a) Determination of Viscosity
(b) Determination of Surface Tension
(c) Determination of Angle of Repose

SPLIT UP OF MARKS

Sl. No		Major (35)	Minor (20)
1.	**Procedure with tabular column**	10	5
2.	**Calculation including graph**	10	5
3.	**Performance of the experiment**	10	5
4.	**Report**	5	5
	TOTAL	35	20

IV. Viva voce **30 marks**

Pharmaceutics III
(Pharmaceutical Technology)

(Time : 4 hrs , Max Marks for Practical : 70, Max. Marks for Viva:30 marks)

I. Synopsis(7.5 marks each) **15 marks**

Principle / procedure of any TWO experiments

II. Major experiment **(35 marks)**

Include ,

a. Particle size distribution determination using sieve method
b. Determination of drying rate
c. Effect of filter aids on rate of filtration
d. Determination of size distribution of particles by sedimentation and decantation

III . Minor experiment **(20 marks)**

Include ,

a. Particle size distribution determination using microscope
b. Determination of atmospheric humidity by Psychrometric method
c. Determination of atmospheric humidity by Dew point method

SPLIT UP OF MARKS

Sl. No		Major (35)	Minor (20)
1.	Procedure with tabular column	10	5
2.	Calculation including graph	10	5
3.	Performance of the experiment	10	5
4.	Report	5	5
	TOTAL	35	20

IV. Viva voce **30 marks**

Applied Biochemistry & Molecular Biology

(Time : 4 hrs , Max Marks for Practical : 70, Max. Marks for Viva:30 marks)

I Synopsis **15 marks**

Three questions carrying 5 marks each

Principle involved in experiments mentioned in syllabus

(i) Qualitative tests

(ii) Quantitative estimations

II Major experiment **35 marks**

Any one of the quantitative estimations mentioned in syllabus

General presentation such as brief procedure, observation columns, & calculation **5 marks**

Evaluation of result

0 %	-	1% error	-	30 marks
1%	-	2% error	-	25 marks
2%	-	3% error	-	20 marks
3%	-	5% error	-	15 marks
5%	-	10% error	-	10 marks

Above 10% error, 5 marks to be given provided candidate has performed experiment correctly

III. Minor experiment **20 marks**

Any one of the systematic qualitative analysis mentioned in syllabus.

Identification of a given unknown sample

- General presentation of observation columns 2 marks
- Identification test 2 marks
- Other characteristic tests 8 marks
- Confirmatory test/ tests 8 marks

IV. Viva voce **30 marks**