

PHARM. D FIRST YEAR

Scheme for Practical Examination/ Evaluation

Human Anatomy & Physiology

Time : 4 hrs
Max Marks : 70

I .Identification/Spotters

10 marks

- Any *five* items/spotters
- Include Bone/model/chart/instruments/tissue slides/ family planning appliances/ appliances in experimental physiology

II .Synopsis

10 marks

- Two questions each for 5 marks
- includes principle / procedure of any experiment

III. Major Experiment

20 marks

Major Experiment include : RBC Count/ WBC Count/ Differential Count, To record simple muscle curve using gastrocnemius sciatic nerve preparation, To record simple summation curve using gastrocnemius sciatic nerve preparation, To record simple effect of temperature using gastrocnemius sciatic nerve preparation, To record simple effect of load & after load using gastrocnemius sciatic nerve preparation. To record simple fatigue curve using gastrocnemius sciatic nerve preparation

Mark distribution for major experiment is as follows:

Conduct of experiment	-12 marks
Result and experiment viva	-8 marks

IV. Minor experiment

15 marks

Minor experiments include : B.P, Hemoglobin estimation, Bleeding time, clotting time, ESR, Blood grouping, Pregnancy diagnostic test.

Mark distribution for minor experiment

Conduct of experiment	-	10 marks
Result and experiment Viva	-	5marks

V. Viva –Voce

15 marks

PHARMACEUTICS

Time : 4 hrs
Max Marks : 70

I. Synopsis (15 marks)

Principle, procedure, use, dose and label requirements of **ANY TWO** preparations.
(7.5 MARKS EACH)

II. Major experiment (25 marks)

Any one emulsion/ suppository

III. Minor experiment (15 marks)

Any one preparation from the rest of the list of experiments mentioned in the syllabus

IV. Viva Voce (15 marks)

SPLIT UP OF MARKS for major/minor experiment:

Sl. No		Major (25)	Minor (15)
1.	Calculation of working formula of the prescription (from given formula)	5	5
2.	Evaluation of the product	10	5
3.	Container selection and label	5	3
4.	Performance of the experiment	5	2
	TOTAL	25	15

MEDICINAL BIOCHEMISTRY

Max. marks: 70
Time: 4 Hours

I.Synopsis (15 marks)

(Two exercises- 7.5 marks each)

Principle /procedure involved in the experiment mentioned in the syllabus

II. Major experiment (25 marks)

Any one experiment mentioned in the syllabus indicated with **

Distribution of marks:

Conduct of experiment -15 marks

Result -10 marks

III. Minor experiment : (15 marks)

Any one experiment in the syllabus indicated with *

Distribution of marks:

Conduct of experiment -10 marks

Result -5 marks

IV. Viva-Voce (15 marks)

PHARMACEUTICAL ORGANIC CHEMISTRY

Max. marks: 70

Time: 4 Hours

I. Synopsis (Two exercises- 7.5 marks each) **(15 marks)**

Principle (with equation) involved in the synthesis / identification of the experiments mentioned in the syllabus

II. Major experiment **(25 marks)**

Systematic qualitative analysis of the given organic compound and its identification

III. Minor experiment: **(15 marks)**

Preparation and submission of any one organic compound mentioned in the syllabus.

IV. Viva-Voce **(15 marks)**

Scheme of valuation

I. SYNOPSIS (Total 15 marks)

Two questions carrying 07.5 marks each .(chemical structure/chemical equations necessary)

2. MAJOR EXPERIMENT (Total 25 marks)

Identification of an unknown organic compound by a systematic qualitative analysis . Full credit shall be given for correct and complete answer. The answer shall be complete like “*the given organic compound is a saturated aromatic alcohol*” OR “*the given organic compound is a saturated aliphatic diamide (Urea)* etc.

Mark distribution:

Aliphatic/Aromatic	: 04
Saturated/Unsaturated	: 04
Detection of elements	: 07
Qualitative tests including confirmatory tests	: 10

(I) MINOR EXPERIMENT (Total 15 marks)

Preparation of an organic compound through a one step reaction. Full credit shall be given to the preparation if the compound prepared is of correct texture (Crystal shape), colour, odour, dryness and yield. Mark distribution is as follows:

Colour	: 2
Odour	: 2
Dryness	: 2
Texture	: 4
Yield	: 5

Marks shall be reduced proportionally if any of the above criteria is not satisfactory.

Pharmaceutical Inorganic Chemistry

Time : 3 hrs
Max Marks : 70

1. Synopsis (15marks)

(Two exercises- 7.5 marks each)

Principle (with equation) involved in the experiments mentioned in the syllabus

II. Major experiment : (25 marks)

Titrimetric assay of any one inorganic compound. Weighing of sample to be assayed is required. . Strength of the titrant solution to be provided.25 marks

0	-	1% error	-	25 marks
1	-	2% error	-	20 marks
2	-	3% error	-	15 marks
3	-	5% error	-	10 marks
4	-	10% error	-	07 marks

Above 10% a grace mark of 5 can be given provided the candidate has performed the whole experiment including the calculation.

III. Minor experiment (15 marks)

Any one experiment from the following- Limit test/ test for identity/ test for purity/ preparation of compound.

IV. Viva voce (15 marks)
