FOURTH SEMESTER B.PHARM END SEMESTER EXAMINATION

EVALUATION GUIDELINES FOR PRACTICAL EXAMINATION

MEDICINAL CHEMISTRY I

Time: 4 hrs **Max. Marks: 35**

Note: 1. Procedure for experiments should be given.
2. Weighing can be done in electronic balance.

I. SYNOPSIS (2.5 x 2 = 5 Marks)

Principle including the chemical reactions of any two experiments

II. MAJOR EXPERIMENT (15 MARKS)

Perform the assay of any of the drug mentioned in the syllabus

a. Standardization of the titrant : 5 marks

b. Assay : 10 Mark

Actual normality should be given for calculating percentage purity.

Evaluation based on % error of assay value:

0 - 1% error - 10 marks

1 - 2% error - 9 marks

2 - 3% error - 8 marks

3 – 5 % error - 6 marks

5 – 10 % error – 4 marks

Above 10% error: 3 marks to be given if the candidate has performed the experiment correctly.

III. MINOR EXPERIMENT (10 Marks)

Prepare and submit any one drug mentioned in the syllabus

Evaluation & Mark distribution:

Colour	: 1 Mark
Odour	: 1 Mark
Dryness	:1 Mark
Texture	: 2 Marks
Yield	: 5 Marks

IV. VIVA VOCE (5 Marks)

KMP College of Pharmacy Pin. 683 549 Asamannoor

FOURTH SEMESTER B.PHARM END SEMESTER EXAMINATION

EVALUATION GUIDELINES FOR PRACTICAL EXAMINATION

PHYSICAL PHARMACEUTICS II

Time: 4hrs **Max marks: 35**

I. SYNOPSIS **(2.5 x 2 = 5 Marks)**

Principle and procedure of any 2 experiments mentioned in the syllabus

II. MAJOR EXPERIMENT (Any one from the following) **(15 Marks)**

a) Determine the rate constant for a first order reaction.

b) Determine the rate constant for a second order reaction.

c) Determine the HLB value of the given surfactant by saponification method.

d) Determine the critical micellar concentration of the given surfactant.

III. MINOR EXPERIMENT (Any one from the following) **(10 Marks)**

a) Determine the surface tension of the given liquid by drop count method.

b) Determine the surface tension of the given liquid by drop weight method.

c) Determine the viscosity of the liquid using Ostwald's Viscometer.

d) Determine the sedimentation volume of the suspension using a single suspending agent.

(Only one concentration).

Split up of Marks:

Sl. No		Major (15)	Minor (10)
1	Procedure with tabular column	4	3
2	Calculation including graph	4	3
3	Performance of the experiment	4	2
4	Report	3	2
	Total	**15**	**10**

IV. VIVA VOCE **(5 Marks)**

KMP College of Pharmacy Pin. 683 549 Asamannoor

FOURTH SEMESTER B.PHARM END SEMESTER EXAMINATION

EVALUATION GUIDELINES FOR PRACTICAL EXAMINATION

PHARMACOLOGY I

Time: 4 hrs **Max. Marks: 35**

I. SYNOPSIS **(2.5 x 2 = 5 Marks)**

Two/ Three questions based on practical syllabus (Time: 15 minutes).

II. MAJOR EXPERIMENT **(20 Marks)**

Demonstrate the DRC of the given agonist on chicken ileum and identify whether the given test compound is an inhibitor or stimulator on it.

III. MINOR EXPERIMENT **(5 Marks)**

Spotters: 5 Nos

(Identification of the item and its use in Experimental pharmacology. Two minutes for each item)

(Items like Sherrington recording drum and accessories, student's organ bath and accessories, different types of levers, equipment used in CNS Pharmacology, small laboratory animals etc. shall be included)

IV. VIVA VOCE **(5 Marks)**

KMP College of Pharmacy Pin. 683 549 Asamannoor

FOURTH SEMESTER B.PHARM END SEMESTER EXAMINATION

EVALUATION GUIDELINES FOR PRACTICAL EXAMINATION

PHARMACOGNOSY AND PHYTOCHEMISTRY I

Time: 4 hrs **Max. Marks: 35**

I. SYNOPSIS **(2.5 x 2 = 5 Marks)**

a. Principle/Procedure of any one experiment mentioned in the syllabus

b. Chemical test for any one crude drug mentioned in the syllabus

II. MAJOR EXPERIMENT (Any one of the following) **(20 Marks)**

a. Determination of stomatal number and index.
b. Determination of vein islet and vein termination number.
c. Determination of palisade ratio.
d. Determination of fibre length and width by eyepiece micrometer.
e. Determination of size of starch grains or calcium oxalate crystals by eye piece micrometer.
f. Determination of ash value.
g. Determination of moisture content of crude drug.

III. MINOR EXPERIMENT **(5 Marks)**

a. Analysis of any one crude drug by chemical test

Split up of marks:

1. Procedure for the test : 2 Marks
2. Observation and inference : 3 Marks

(Evaluation can be done by verifying the test)

IV. VIVA VOCE **(5 Marks)**

KMP College of Pharmacy Pin. 683 549 Asamannoor