## Asamannoo Asamannoo

## III SEMESTER B.PHARM END SEMESTER EXAMINATION EVALUATION GUIDELINES FOR PRACTICAL EXAMINATION PHARMACEUTICAL ORGANIC CHEMISTRY II

Time: 4 hrs Max Marks: 35

Note: 1. Procedure for experiments should be given.

2. Weighing can be done in electronic balance.

I. SYNOPSIS  $(2.5 \times 2 = 5 \text{ Marks})$ 

Principle involving chemical reactions of any two experiments

## II. . MAJOR EXPERIMENT

Determination of acid value/ Saponification value/ Iodine value of fixed oils (15

(15 Marks)

A. Standardization of the titrant

5 Marks

B. Determination of specified analytical constant:

10 Marks

Actual normality should be given for calculating the specified analytical constant.

## Evaluation is based on % error of result:

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)

Synthesize and submit any one organic compound 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)

Pin. 683 549 III SEMESTER B.PHARM END SEMESTER EXAMINATION EVALUATION GUIDELINES FOR PRACTICAL EXAMINATION PHYSICAL PHARMACEUTICS I

Time: 4 hrs Max Marks: 35

I. SYNOPSIS  $(2.5 \times 2 = 5 \text{ Marks})$ 

Principle and procedure of any two experiments mentioned in the syllabus

## II. MAJOR EXPERIMENT (Any one among the following)

(15 Marks)

- a) Study of particle size using Microscopic method
- b) Determination of partition coefficient of benzoic acid between benzene and water
- c) Determination of bulk density, true density and porosity

## III. MINOR EXPERIMENT (Any one among the following)

(10 Marks)

- a) Angle of repose
- b) Determination of pKa value of a weak acid by half neutralisation method
- c) Determination of solubility of a drug at room temperature

## Split of marks for Major and Minor Experiments:

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)

# 681H4SEMESTER B.PHARM END SEMESTER EXAMINATION EMADUATION GUIDELINES FOR PRACTICAL EXAMINATION

Time: 4 hrs Max Marks: 35

PHARMACEUTICAL MICROBIOLOGY

I. SYNOPSIS  $(2.5 \times 2 = 5 \text{ Marks})$ 

The principle and /or procedure of any two experiments mentioned in syllabus.

## II. MAJOR EXPERIMENT

(15 Marks)

Performing Gram's staining of the given pure culture (plate /slant/ broth) of established Gram positive or negative bacteria and the observations and report thereof in oil immersion objective of a compound microscope.

## III. MINOR EXPERIMENT - I

(5 Marks)

Performing motility of bacteria in a given broth culture by Hanging drop method and the observations and report thereof in high-power objective of a compound microscope.

## IV. MINOR EXPERIMENT- II

(5 Marks)

Performing Aseptic transfer techniques in an aseptic room/hood in any one of the following:

- a) Transfer of loop –full of broth culture to afresh broth.
- b) Transfer of a colony from a streak/ spread/pour plate or agar slant into fresh broth.
- c) Transfer of a loop-full of broth culture to a streak plate or agar slant for isolation of pure culture.
- d) Transfer of a sample of IV fluid to Fluid Thioglycollate medium by direct inoculation method.

## SPILT UP OF MARKS:

SI. No	Details	Major (15)	Minor-I (5)	Minor-II (5)
1.	Optical Adjustment of microscope (focusing/illumination/nature of the focused field	5	2	
2.	Observations including diagram of field	5	1	
3.	Report	2 ½	1	1/2
4.	Overall adherence to Aseptic techniques and microbiological protocols while performing the experiments	2 1/2	1	4 1/2
	Total	15	5	5

(5 Marks)

V.VIVA VOCE

Pin. 683 549 C. HI SEMESTER B.PHARM END SEMESTER EXAMINATION

## PHARMACEUTICAL ENGINEERING

EVALUATION GUIDELINES FOR PRACTICAL EXAMINATION

Time: 4 hrs Max Marks: 35

I. SYNOPSIS  $(2.5 \times 2 = 5 \text{ Marks})$ 

Principle and procedure of any 2 experiments mentioned in the syllabus

## II. MAJOR EXPERIMENT (Any one from the following)

(15 Marks)

- a) Determine the effect of surface area/concentration/viscosity on the rate of Evaporation.
- b) Construct the drying curve for the given sample powder (determine the moisture content and loss on drying)
- c) Perform the particle size analysis of the given sample powder by sieving.
- d) Perform the particle size analysis of the given sample powder by beaker decantation.
- e) Determine the mixing index of the given sample powder at different time intervals.

## III. MINOR EXPERIMENT (Any one from the following)

(10 Marks)

- a) Determination of atmospheric humidity by Psychrometric method.
- b) Determination of atmospheric humidity by dew point method.
- c) Determine the effect of surface area/concentration/viscosity on the rate of filtration.

### 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)