BP103T. PHARMACEUTICS- I (Theory) 45 Hours

Scope: This course is designed to impart a fundamental knowledge on the preparatory pharmacy with arts and science of preparing the different conventional dosage forms.

Objectives: Upon completion of this course the student should be able to:

Know the history of profession of pharmacy

Understand the basics of different dosage forms, pharmaceutical incompatibilities and pharmaceutical calculations

Understand the professional way of handling the prescription

Preparation of various conventional dosage forms

Course Content:

UNIT – I **10 Hours**

Historical background and development of profession of pharmacy: History of profession of Pharmacy in India in relation to pharmacy education, industry and organization, Pharmacy as a career, Pharmacopoeias: Introduction to IP, BP, USP and Extra Pharmacopoeia.

Dosage forms: Introduction to dosage forms, classification and definitions

Prescription: Definition, Parts of prescription, handling of Prescription and Errors in prescription.

Posology: Definition, Factors affecting posology. Pediatric dose calculations based on age, body weight and body surface area.

UNIT – II **10 Hours**

Pharmaceutical calculations: Weights and measures – Imperial & Metric system, Calculations involving percentage solutions, alligation, proof spirit and isotonic solutions based on freezing point and molecular weight.

Powders: Definition, classification, advantages and disadvantages,Simple & compound powders – official preparations, dusting powders, effervescent, efflorescent and hygroscopic powders, eutectic mixtures. Geometric dilutions.

Liquid dosage forms: Advantages and disadvantages of liquid dosage forms. Excipients used in formulation of liquid dosage forms. Solubility enhancement techniques

UNIT – III **08 Hours**

Monophasic liquids: Definitions and preparations of Gargles, Mouthwashes, Throat Paint, Eardrops, Nasal drops, Enemas, Syrups, Elixirs, Liniments and Lotions.

Biphasic liquids:

Suspensions: Definition, advantages and disadvantages, classifications,

Preparation of suspensions; Flocculated and Deflocculated suspension & stab problems and methods to overcome.
Emulsions: Definition, classification, emulsifying agent, test for the identification of type ofEmulsion, Methods of preparation & stability problems and methods to overcome.

UNIT – IV

08 Hours

Suppositories: Definition, types, advantages and disadvantages, types of bases, methods of preparations. Displacement value & its calculations, evaluation of suppositories.
Pharmaceutical incompatibilities: Definition, classification, physical, chemical and therapeutic incompatibilities with examples.

UNIV – V

Semisolid dosage forms: Definitions, classification, mechanisms and factors influencing dermal penetration of drugs. Preparation of ointments, pastes, creams and gels. Excipients used in semi solid dosage forms. Evaluation of semi solid dosages forms **07 Hours**

BP109P. PHARMACEUTICSI (Practical)

3 Hours / week

1 . Syrups

Syrup IP'66
Compound syrup of Ferrous Phosphate BPC'68

Elixirs
a) Piperazine citrate elixir
Paracetamol pediatric elixir

3.Linctus
a) Terpin Hydrate Linctus IP'66
b) Iodine Throat Paint (Mandles Paint)

4. Solutions

Strong solution of ammonium acetate
Cresol with soap solution
Lugol's solution

Suspensions

Calamine lotion
Magnesium Hydroxide mixture
Aluminimum Hydroxide gel

Emulsions
a) Turpentine Liniment
Liquid paraffin emulsion

Powders and Granules

ORS powder (WHO)
Effervescent granules
c)Dusting powder

)Divded powders

Suppositories

Glycero gelatin suppository

Coca butter suppository

Zinc Oxide suppository

8. Semisolids

Sulphur ointment

Non staining-iodine ointment with methyl salicylate

Carbopal gel

Gargles and Mouthwashes

Iodine gargle

Chlorhexidine mouthwash

Recommended Books: (Latest Editions)

H.C. Ansel et al., Pharmaceutical Dosage Form and Drug Delivery System, Lippincott Williams and Walkins, New Delhi.

Carter S.J., Cooper and Gunn's-Dispensing for Pharmaceutical Students, CBS publishers, New Delhi.

M.E. Aulton, Pharmaceutics, The Science& Dosage Form Design, Churchill Livingstone, Edinburgh.

Indian pharmacopoeia.

British pharmacopoeia.

Lachmann. Theory and Practice of Industrial Pharmacy,Lea& Febiger Publisher, The University of Michigan.

Alfonso R. Gennaro Remington. The Science and Practice of Pharmacy, Lippincott Williams, New Delhi.

Carter S.J., Cooper and Gunn's. Tutorial Pharmacy, CBS Publications, New Delhi.

E.A. Rawlins, Bentley's Text Book of Pharmaceutics, English Language Book Society, Elsevier Health Sciences, USA.

Isaac Ghebre Sellassie: Pharmaceutical Pelletization Technology, Marcel Dekker, INC, New York.

Dilip M. Parikh: Handbook of Pharmaceutical Granulation Technology, Marcel Dekker, INC, New York.

Francoise Nieloud and Gilberte Marti-Mestres: Pharmaceutical Emulsions and Suspensions, Marcel Dekker, INC, New York.

BP104T. PHARMACEUTICAL INORGANIC CHEMISTRY (Theory)

45 Hours

Scope: This subject deals with the monographs of inorganic drugs and pharmaceuticals.

Objectives: Upon completion of course student shall be able to

know the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals

Dec., 2019

Total No. of printed pages = 7

BP 103 T

Roll No. of candidate | | | | | | | | | | |

2019

B.Pharm. 1st Semester End-Term Examination

PHARMACEUTICS – I (Theory)

(New Regulation)

(w.e.f. 2017-2018)

Full Marks – 75 Time – Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following questions (MCQ): (20 × 1 = 20)

(i) The term 'Deflocculated suspension' means

(a) Individual particles are attached with each other, to form network like structure

(b) Individual particles exist as separate entity

(c) They are soluble upon shaking

(d) They are insoluble and particles-never settle

[Turn over

(ii) The concentration of sugar in Syrup IP is

(a) 70% w/w

(b) 66.7% w/w

(c) 80% w/w

(d) 85% w/w

(iii) If the oil phase of an emulsion is liquid paraffin, then the proportions of oil: water: gum is

(a) 4:2:1

(b) 2:2:1

(c) 3:2:1

(d) 4:2:2

(iv) The ear cones are also known as

(a) Pessaries

(b) Suppositories

(c) Aurinaria

(d) None of the above

(v) Following are oleaginous bases, except

(a) Wool fat

(b) Petrolatum

(c) Hard paraffin

(d) Liquid paraffin

(vi) Agar cup-plate method is used for

(a) Preparation of ointment

(b) Preparation of pastes

(c) Evaluation of creams

(d) Evaluation of ointment

(vii) Which one of the following is a viscous preparation?

(a) Throat paint

(b) Elixir

(c) Nasal drop

(d) Ear drop

(viii) Fried's formula to calculate dose for children is related to

(a) Age in days

(b) Age in month

(c) Age in years

(d) None of these

(ix) Pharmacy Council of India (PCI) was established in the year

(a) 1937

(b) 1948

(c) 1949

(d) 1951

(x) When two or more drugs are co-administered and their action is increased, is known as

(a) Antagonism

(b) Idiosyncrasy

(c) Tachyphylaxis

(d) Synergism

(xi) In India, Proof Spirit refers to

(a) 51.7% v/v methanol

(b) 57.1% v/v ethanol

(c) 50.7% v/v methanol

(d) 55.2% v/v ethanol

(xii) 1 pint = Fluid ounces

(a) 12

(b) 16

(c) 20

(d) 26

(xiii) Enclosed Powders are known as

(a) Sachets

(b) Capsules

(c) Pills

(d) Pastillies

(xiv) Give the meaning of Mitte

(a) Send

(b) Mixture

(c) Make

(d) Dilute

(xv) Method of powder mixing

(a) Spatulation

(b) Tumbling

(c) Geometric dilution

(d) All the above

(xvi) Which one of the following is a biphasic dosage for external use

(a) Liniments

(b) Linctus

(c) Elixir

(d) Cream

(xii) 1 pint = Fluid ounces

(a) 12

(b) 16

(c) 20

(d) 26

(xiii) Enclosed Powders are known as

(a) Sachets

(b) Capsules

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(xv) Method of powder mixing

(a) Spatulation

(b) Tumbling

(c) Geometric dilution

(d) All the above

(xvi) Which one of the following is a biphasic dosage for external use

(a) Liniments

(b) Linctus

(c) Elixir

(d) Cream

(xvii) Direction to a pharmacist is given in

(a) Signature

(b) Subscription

(c) Superscription

(d) Inscription

(xviii) Solubility enhancement of poorly water soluble drug by adding water miscible solvent is known as

(a) Hydrotropy

(b) Complexation

(c) Cosolvancy

(d) Solubilization

(xix) Amount of ethyl alcohol present in elixir is

(a) 10-50% v/v

(b) 5-40% v/v

(c) 1-20% v/v

(d) 40-60 % v/v

(xx) Precipitation occurs when KOH is added to an aqueous solution of acacia, it is an incompatibility of the type

(a) Physical

(b) Chemical

(c) Therapeutic

(d) Both (a) and (b)

2. Answer any SEVEN of the following questions $(7 \times 5 = 35)$

(a) Discuss the steps involved in handling of prescription.

(b) Differentiate tolerated and adjusted incompatibilities. How will you dispense the mixtures in which precipitate yielding interactions takes place?

(c) What are the advantages and disadvantages of suppositories? Write a method of preparation of suppositories.

(d) What are the different solubility enhancement techniques?

(e) Calculate the real strength of 25° O.P and 30° U.P.

(f) What are the salient features of Indian Pharmacopoeia 2018?

(g) Discuss the method of preparation of flocculated and deflocculated suspension.

(h) What are the methods used to make a solution iso-osmotic with blood plasma. Explain one method.

(i) Give the definition of :

(i) Eutectic mixtures

(ii) Efflorescent powders

(iii) Effervescent powders

(iv) Simple powder

(v) Compound powders.

3. Answer any TWO questions: (2 × 10 = 20)

(a) What are creams and ointments? Classify the ointment bases. What are the stability problems of emulsion and how to overcome these problems? (2+2+6)

(b) What do you mean by posology? Discuss the factors influencing the dose of a drug. If the adults of a drug is 100 mg, calculate the close for -a 9 months old infant and a child of 5 years age. (1+6+3)

(c) Write short notes on any five (5 × 2 = 10)

Pastes; Emulsifying Agent; Elixirs; Displacement value; Syrup; Dusting Powder.

CLASS TE

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE

B. Pharm 1st Semester

Subject: Pharmaceutics I

Subject Code: BP103T

CLASS TEST

Marks: 1X10

1.The particle size of the suspended drug particles should not be more then .....

2.What is crystal growth

3.Give one example of flocculating agent.

4. Give one difference between flocullated suspension and non flocullated suspension .

5. Define liniment

6. Give one example of preservatives

7.Give one use of douches

8.Mention one therapeutic incompatibility

9.Define signatura

10. State any one care required in dispensing of prescription

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE (GIPS)

B Pharm 1st Semester 2nd Sessional Examination

Sub: PharmaceuticS I (BP103T)

Full Marks: 20

Sessiona
Practic

Q 1. Experiment **1X10=5**

Q2. Synopsis **1X5=5**

a. Write a note Liniments

OR

b. Write a note on emulsions

Q.3 Viva Voce **5**

ASSIGNMENT ON PHARMACEUTICS

(A)

SUBMITTED BY:

NAME: Kunal Pathak

PROGRAMME: B. PHARM 1st Sem

SECTION: A

Submitted

ASSIGNMENT ON PHARMACEUTICS

A

SUBMITTED BY:

NAME: LANI SAIKIA

PROGRAMME: B. PHARM 1st Sem

SECTION: A

Submitted

Assignm

GIPS

Assignment

on

Pharmaceutics

Submitted by: Angela Goswami
B Pharm, 1st Sem
Rollno: 19051001107
Date: 4/11/19
Slno: 07

Definition :-

Incompatible means, when two things are not remained together due to any of the cause. There are so many ingredients and drugs which have been used to produce many formulations there might be the chance that few of them with their physical, chemical and therapeutic properties can alter safety purpose and appearence of the preparation. Henceforth, we can define pharmaceutical Incompatibilities as "untoward result occured by prescribing, giving or mixing of the substances and drugs which are cantagonistic in nature".

Types of Incompatibilities

Incompatibities may be classified mainly into 3 classes :-

a) Therapeutic Incompatibilities
b) Physical Incompatibilites.
c) Chemical Incompatibilities

Therapeutic Incompatibility

It is not due to physical or chemical reactions between the reactants present in the prescription but due to the change in the therapeutic response or intensity of one or more drugs than intended by the prescriber. Doctors may commit many human errors in their prescription which may turn to the therapeutic incompatibility. The errors are :-

i) Prescribing improper dose of drugs

The dose of a drug is very important to treat a patient. If a doctor is prescribing a correct drug with incorrect dose, the will not be getting the therapeutic effect what he is intended to.

ii) Prescribing wrong drug and dosage form

There are many drugs having confusingly similar names, which may have created the possibility of dispensing wrong prescription. Amongst such drugs name are prednisone and prednisolone, protamine and protdmide, digoxin and digitoxin.

8

Monophasic Liquid Dosage Forms

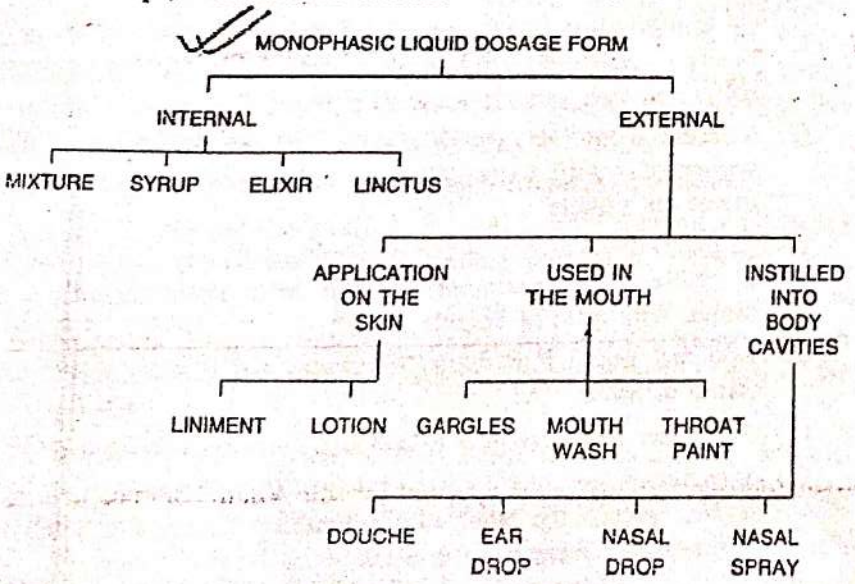
Liquid dosage forms commonly used in pharmacy are either monophasic or biphasic. Monophasic liquid dosage form refers to liquid preparation in which there is only one phase. It is represented by true solution. A true solution is a clear homogenous mixture that is prepared by dissolving a solid, liquid or gas in a liquid. The component of solution present in large amount is known as 'solvent' and the component present in small amount is known as 'solute'.

Classification

Monophasic liquid dosage forms are classified into two groups:—

(i) Liquids meant for internal administration, for example, mixtures, syrups and elixirs.

(ii) Liquids meant for external administration, for example, gargles, mouthwashes, throat paints, douches, nasal drops, eye drops, ear drops, liniments and lotions.



LIQUIDS MEANT FOR INTERNAL ADMINISTRATION

Liquid preparations for internal administration includes following categories of preparations:—

(1) Mixtures (2) Syrups
(3) Elixirs (4) Linctuses
(5) Aromatic Waters

MIXTURES

A mixture is a liquid preparation meant for oral administration in which medicament or medicaments are dissolved or suspended in a suitable vehicle. Generally, several doses are dispensed in a bottle. In case, a bottle contain one dose, it is called draught.

Mixtures are not prepared to keep them for a long period because they are mainly prescribed for acute conditions such as cough, indigestion, diarrhoea, constipation etc. So the mixtures should be extemporaneously prepared and supplied only for small number of doses which can be used up within a short period. In case further need arises, then a fresh mixture is prepared for the patient.

Classification of mixtures Mixtures are classified into:—

(i) Simple mixtures containing soluble substances
(ii) Mixtures containing diffusible solids
(iii) Mixtures containing indiffusible solids
(iv) Mixtures containing precipitates forming liquids
(v) Mixtures containing slightly soluble liquids

(i) Simple mixtures containing soluble substances : Simple mixtures contains only soluble ingredients e.g., carminative mixture, diarrhoea mixture and expectorant mixture.

Method of dispensing

(1) Dissolve the solid substances in 3/4th of the vehicle.
(2) Examine the solution critically by holding it against the light. If foreign particles are visible, strain it through a cotton wool.
(3) Add any liquid ingredients.
(4) Add more of vehicle to produce the final volume.
(5) Transfer the mixture into the bottle. Cork it and then thoroughly polish the bottle to remove finger prints. Attach the label, wrap the bottle and dispense.

11

Semisolid Dosage Forms— Ointments, Creams, Pastes and Jellies

Semisolid dosage forms are mainly meant for external application e.g., ointments, creams, jellies and pastes etc. The suppositories are also included in this category although these are unit dosage form.

OINTMENTS

Ointments are semi-solid preparations meant for external application to the skin or mucous membrane. They usually contain a medicament or medicaments dissolved, suspended or emulsified in an ointment base. They may contain a suitable antimicrobial preservative. The ointments are mainly used as protective or emollient for the skin.

Classification of Ointments

Ointments may be classified as follows:—

(1) According to their therapeutic properties based on penetration

(2) According to their therapeutic uses

Ointment classified according to properties based on penetration

(i) **Epidermic ointments :** These ointments are meant for action on epidermis and produce local effect. They are not absorbed. These types of ointments are mainly used as protectives, antiseptics, local anti-infectives and parasiticides.

(ii) **Endodermic ointments :** These ointments are meant for action on deeper layers of cutaneous tissues. They are partially absorbed and act as emollients, stimulants and local irritants.

(iii) **Diadermic ointments :** These ointments are meant for deep penetration and release the medicaments that pass through the skin and produce systemic effects.

Ointments classified according to therapeutic uses

(i) **Antibiotic ointments :** These ointments are used to kill microorganisms. The antibiotics used are bacitracin, neomycin, chlortetracycline etc.

(ii) **Antifungal ointments :** These ointments are used to inhibit or kill the fungi. The commonly used antifungal agents are benzoic acid, salicylic acid and nystatin etc.

(iii) **Anti-inflammatory ointments :** These ointments are used to relieve inflammatory, allergic and pruritic conditions of the skin. Betamethasone valerate, hydrocortisone and its acetate are some of the commonly used anti-inflammatory agents.

(iv) **Antipruritic ointments :** These ointments are used to relieve itching. The antipruritic drugs commonly used are benzocaine and coal tar.

(v) **Astringent ointments :** These ointments causes contraction of the skin and decrease discharges. The astringents commonly mixed with ointment bases are calamine, zinc oxide, acetic acid and tannic acid.

(vi) **Antieczematous ointments :** These ointments are used to prevent oozing and excretion from vesicles on the skin. The drugs which are commonly mixed with ointment bases are hydrocortisones, ichthammol, coal tar and salicylic acid.

(vii) **Keratolytic ointments :** These ointments are used to remove or soften the horny layer of the skin. The drugs that remove keratin are resorcinol, salicylic acid and sulphur.

(viii) **Counter-irritant ointments :** These ointments are applied locally to irritate the skin, thus reducing or relieving another irritation or deep seated pain. The drugs used are capsicum, methyl salicylate, oleoresin and iodine.

(ix) **Ointments used for dandruff treatment :** These ointments are applied locally to get relief from dandruff. The drugs commonly used are salicylic acid and cetrimide.

(x) **Ointments for psoriasis treatment :** Coal tar, corticosteroid, dithranol and salicylic acid are incorporated with the suitable ointment base for the treatment of psoriasis.

(xi) **Parasiticide ointments :** These ointments destroy or inhibit living infestation, such as lice and ticks. The drugs commonly mixed with ointment bases are benzyl benzoate, hexachloride, sulphur etc.

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE (GIPS)

(A Unit of Shrimanta Shankar Academy)
N. H. 37, Hatkhowapara, Azara, Guwahati - 17

ESTD. - 2007

PRACTICAL NOTE BOOK

Subject PHARMACEUTICS - I

Name A.A.I. PARVAJ LASKAR

Class B. PHARM 1ST SEM Roll No. 1905100111001

Regn. No. 369605119

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE (GIPS)

(A Unit of Shrimanta Shankar Academy)
N. H. 37, Hatkhowapara, Azara, Guwahati - 17

Estd. - 2007

Regn. No. 362605 (19

CERTIFIED to be bonafide record of the work in PHARMACEUTICS - I

by A.A.J. Parvaj Laskar of

B. Pharm. / D. Pharm. 1st Semester / Year during the Academic Session

2019 - 20 at Girijananda Chowdhury Institute of Pharmaceutical Science (GIPS).

PRINCIPAL

27/11/19
TEACHER-IN-CHARGE

Submitted to the Assam Science & Technology University for Practical Examination held in June/December..... at Girijananda Chowdhury Institute of Pharmaceutical Scinence, N.H.37, Hatkhowapara, Azara, Guwahati - 17

Date :

External Examiner

28/11/19
Internal Examiner

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Sl. No.	Name of the Experiment	Page No.	Date of Experiment	Date of Submission	Marks Obtained
01	prepare & dispense 5g ORS powder	01	7/8/19	14/8/19	5
02	To Compound & Dispense 5g of antiseptic Powder.		14/8/19		5
03	To compound & dispense 30mL of Antacid Mixture		14/8/19		5
04	To compound & dispense 50mL of antianemic mixture		21/8/19		5
05	To Compound and dispense 120mL of saline purgative mix.		21/8/19		5
06	To compound & dispense 25mL of milk of Magnesium		28/8/19		6
07	To compound & dispense 25mL of mouthwash		28/8/19		6
08	To compound & dispense 30mL of gargle		4/9/19		7
09	To compound & dispense 10mL of mandl's paint		4/9/19		7
10	To compound & dispense 40mL Ear drops		11/9/19		8
11	To compound & dispense 30mL of Turpentine oil		11/9/19		8
12.	To compound & Dispense 50mL of liquid paraffin emulsion		25/9/19		6
13	To compound & Dispense 50mL of Castor oil emulsion		25/9/19		6

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Sl. No.	Name of the Experiment	Page No.	Date of Experiment	Date of Submission	Marks Obtained
14.	To compound & dispense 50mL benzyl benzoate application		16/10/19		7
15	To Compound and dispense 20 gm ZnO Starch paste		16/10/19		8
16	To Compound & dispense 20gm q Burrow's paste		23/10/19		8
17.	To compound and dispense 25g. q non-staining iodine ointment -E		23/10/19		8
18.	To Compound & dispense 30gm q zinc cream		30/10/19		9
19.	To compound & dispense 20gm lubricating jelly		30/10/19		9
20.	To compound and dispense 6 boric acid suppositories		6/11/19		9

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE

ROGRAM :	BACHELOR OF PHARMACY (B. PHARM) (New Curriculum - 2017)		
NIVERSITY :	Assam Science & Technology University		
AME OF THE SUBJECT :	Theory:	Practical	Pharmaceutics I
UBJECT CODE :	Theory:	Practical	BP109P
SSION :	Aug- December 2019		
AME OF THE TEACHER(S) :	Asha Das		

COURSE OUTCOME ASSESSMENT SHEET

ROLL NO	Practical			Practical																											
				CONTINUOUS ASSESSMENT (20)																								SESSIONAL			
	NO. OF CLASSES	NO. OF CLASSES	ATTENDANCE	EXPT 1	EXPT 2	EXPT 3	EXPT 4	EXPT 5	EXPT 6	EXPT 7	EXPT 8	EXPT 9	EXPT 10	EXPT 11	EXPT 12	EXPT 13	EXPT 14	EXPT 15	EXPT 16	EXPT 17	EXPT 18	EXPT 19	EXPT 20	EXPT 21	EXPT 22	EXPT 23	EXPT 24	1ST SES	2ND SES	AVG	ESE GP
190510011001	11	10	91	19	18	18	17	18	17	19	19	18	18	18	17	17	16	18	18	19	19	17	17					37	37	38	A
190510011002	11	9	82	17	17	18	17	16	17	19	18	18	17	17	16	17	17	17	18	17	17	17	18					33	34	34	A
190510011003	11	9	82	17	16	16	17	17	18	19	19	17	17	18	16	17	16	16	18	18	16	18	18					33	34	34	B
190510011004	11	10	91	16	17	17	17	18	19	16	17	17	18	18	16	16	16	15	17	17	16	16	18					32	34	34	A
190510011005	11	9	82	15	15	16	15	17	17	17	16	16	18	18	17	17	18	16	16	17	16	17	17					26	28	27	B
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190510011007	11	10	91	19	19	18	18	17	17	18	18	19	18	18	17	17	18	18	17	16	17	17	17					28	30	30	A
190510011008	11	10	91	19	18	19	19	18	18	17	18	19	19	18	17	17	18	18	17	18	18	17	17					29	29	30	
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190510011010																															
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190510011013	11	9	82	16	17	17	16	16	16	15	17	17	15	15	12	12	13	14	14	15	13	13	12					25	25	26	B
190510011014	11	9	82	16	17	17	16	17	17	16	16	17	18	18	15	15	16	16	17	17	16	16	15					29	30	30	B
190510011015	11	9	82	15	16	16	15	17	16	16	14	15	15	15	14	14	12	12	13	14	14	14	15					22	23	23	
190510011016	11	9	82	17	18	18	19	18	17	17	19	18	19	19	18	17	18	18	17	19	16	17	17					28	30	32	A
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190510011018	11	9	82	16	16	17	16	15	14	14	12	15	13	13	12	13	14	14	16	14	14	14	15					25	25	26	B
190510011019	11	10	91	17	17	16	17	18	18	16	16	16	17	18	15	16	16	17	17	18	18	17	17					28	29	30	A
190510011020	11	9	82	15	14	13	14	14	15	15	16	12	12	13	14	14	15	15	15	13	13	12	12					25	26	26	C
190510011021	11	9	82	15	14	15	16	16	15	15	14	14	15	15	14	14	15	15	14	13	13	14	13					25	25	26	D
190510011022	11	10	91	15	14	14	15	12	12	13	13	14	14	13	12	12	13	13	14	12	13	13	12					28	28	30	C

SIGNATURE OF THE TEACHER

ROLL NO	Practical: NO. OF CLASSES HELD	NO. OF CLASSES ATTENDED	ATTENDANCE
190510011023	11	10	91
190510011024	11	9	82
190510011025	11	10	91
190510011026	11	9	82
190510011027	11	10	91
190510011028	11	10	91
190510011029	11	10	91
190510011030	11	9	82
190510011031	11	9	82
190510011032	11	9	82
190510011033	11	10	91
190510011034	11	9	82
190510011035	11	9	82
190510011036	11	9	82
190510011037	11	10	91
190510011038	11	9	82
190510011039	11	9	82
190510011040	11	9	82
190510011041	11	10	91
190510011042	11	9	82
190510011043	11	9	82
190510011044	11	9	82
190510011045	11	9	82
190510011046	11	9	82
190510011047	11	10	91
190510011048	11	10	91
190510011049	11	10	91
190510011050	11	9	82
190510011051	11	10	91

Practical — CONTINUOUS ASSESSMENT (20)

ROLL NO	EXPT 1	EXPT 2	EXPT 3	EXPT 4	EXPT 5	EXPT 6	EXPT 7	EXPT 8	EXPT 9	EXPT 10	EXPT 11	EXPT 12	EXPT 13	EXPT 14	EXPT 15	EXPT 16	EXPT 17	EXPT 18	EXPT 19	EXPT 20	EXPT 21	EXPT 22	EXPT 23	EXPT 24	SESSIONAL: 1ST SES	2ND SES	AVG	ESE GP
190510011023	17	17	16	16	17	17	16	16	17	17	17	16	16	17	17	18	18	17	18	16					32	32	34	A
190510011024	17	16	16	17	17	18	18	16	16	17	19	18	18	18	17	16	16	16	17	17					33	34	34	B
190510011025	16	15	16	16	17	17	18	18	17	16	17	16	16	17	15	16	17	17	16	17					33	34	34	B
190510011026	18	18	17	17	16	16	17	18	15	17	17	16	16	17	15	15	16	16	17	18					38	39	39	A
190510011027	12	12	14	16	14	14	16	16	13	13	12	14	14	12	13	12	14	14	13	13					36	37	37	B
190510011028	13	13	12	12	14	14	13	14	13	14	12	13	13	12	14	13	13	12	12	14					35	34	35	C
190510011029	17	17	18	18	17	18	17	18	18	17	19	17	18	18	16	17	17	16	16	19					38	38	38	O
190510011030	17	16	16	18	16	17	17	16	17	18	16	17	17	16	18	18	17	16	16	17					37	38	38	C
190510011031	12	12	13	14	14	12	13	13	12	12	14	13	13	14	13	12	12	14	14	13					37	37	37	C
190510011032	14	15	15	14	16	16	17	17	18	18	17	16	16	14	17	17	16	16	17	17					38	36	37	C
190510011033	12	13	13	12	12	14	13	12	12	14	14	13	13	14	14	13	12	12	13	14					36	37	37	D
190510011034	19	18	18	17	17	18	18	17	17	18	18	17	17	18	17	17	19	19	17	17					38	38	38	O
190510011035	12	12	13	14	14	13	15	13	13	12	12	13	12	13	14	14	13	12	12	14					35	37	36	C
190510011036	18	18	17	16	16	15	19	17	18	18	19	17	18	18	17	16	16	17	17	16					39	38	39	A
190510011037	18	18	19	18	19	17	17	18	16	17	17	17	16	16	17	18	17	18	18	17					39	38	39	O
190510011038	12	12	13	12	14	14	13	13	14	14	14	13	13	12	12	14	14	13	13	12					20	34	27	
190510011039	13	13	14	12	12	14	14	13	13	12	13	12	12	13	13	14	12	12	13	13					25	32	29	
190510011040	16	16	17	17	18	18	16	16	15	16	15	16	14	15	16	17	17	18	16	17					32	37	35	C
190510011041	19	19	18	17	17	18	18	17	16	19	18	17	18	17	17	18	19	17	17	18					39	39	39	O
190510011042	18	17	17	16	16	15	17	17	18	17	17	17	17	18	16	16	18	18	17	17					32	36	34	B
190510011043	17	18	17	17	18	17	18	18	17	17	18	17	18	18	17	16	16	17	18	18					36	37	37	B
190510011044	18	19	18	18	17	19	19	18	17	18	19	18	19	19	17	17	18	18	16	17					39	39	39	O
190510011045	19	18	18	19	18	19	18	18	17	18	18	17	17	18	19	19	18	17	17	18					39	38	39	O
190510011046	17	16	17	16	18	18	17	17	16	16	16	17	16	18	16	17	17	16	17	17					38	37	38	A
190510011047	13	13	12	12	14	15	14	13	12	12	12	13	12	14	13	14	12	13	13	14					36	37	37	C
190510011048	12	13	13	12	13	14	13	14	13	13	12	13	13	12	14	14	13	13	14	12					35	36	36	C
190510011049	17	17	18	17	18	18	16	16	17	16	16	17	17	18	18	16	16	17	16	16					39	37	38	C
190510011050	17	18	18	17	17	16	16	16	17	16	16	15	17	18	16	16	17	17	18	17					38	37	38	B
190510011051	16	16	17	17	18	18	17	17	16	16	16	16	17	18	18	17	16	16	17	16					39	37	38	O

SIGNATURE OF THE TEACHER

ROLL NO	Practical			Practical																								SESSIONAL			ESE GP
				CONTINUOUS ASSESSMENT (20)																											
	NO. OF CLASSES HELD	NO. OF CLASSES ATTENDED	ATTENDANCE	EXPT 1	EXPT 2	EXPT 3	EXPT 4	EXPT 5	EXPT 6	EXPT 7	EXPT 8	EXPT 9	EXPT 10	EXPT 11	EXPT 12	EXPT 13	EXPT 14	EXPT 15	EXPT 16	EXPT 17	EXPT 18	EXPT 19	EXPT 20	EXPT 21	EXPT 22	EXPT 23	EXPT 24	1ST SES	2ND SES	AVG	
190510011052	11	9	82	17	17	18	17	16	17	16	16	16	16	15	14	15	15	16	16	15	15	14	17					38	37	38	B
190510011053	11	10	91	17	18	18	17	17	16	16	17	17	16	16	17	17	18	18	16	16	17	17	19					35	37	36	A
190510011054	11	10	91	16	16	17	17	18	18	15	15	16	17	17	16	16	17	17	17	16	16	18	19					37	37	37	C
190510011055	11	10	91	15	14	16	16	17	17	18	17	19	19	16	16	17	17	18	18	16	16	19	18					37	36	37	A
190510011056	11	9	82	15	16	16	17	17	17	18	18	18	15	15	16	16	17	17	18	18	16	16	17					37	38	38	A
190510011057	11	10	91	12	12	12	13	13	13	14	14	15	16	14	14	12	12	13	13	12	12	13	13					28	28	28	
190510011058	11	10	91	18	19	18	17	17	16	17	17	16	16	15	14	18	18	19	19	17	17	18	18					36	37	37	B
190510011059	11	9	82	17	17	18	16	16	17	17	16	18	18	16	16	17	17	16	16	17	17	17	18					37	37	37	B
190510011060	11	9	82	19	19	18	17	19	18	17	17	16	18	17	17	16	16	18	18	16	19	17	17					38	38	38	O
190510011061	11	9	82	13	12	12	12	12	13	13	14	13	12	13	13	12	12	13	12	14	14	13	14					37	36	37	B
190510011062	11	10	91	19	16	16	17	16	16	17	17	17	17	18	18	18	16	19	16	16	17	17	16					38	36	37	B
190510011063	11	10	91	18	19	19	18	17	17	18	17	17	18	16	17	19	16	19	15	16	19	17	18					36	38	37	A
190510011064	11	9	82	16	16	15	15	16	16	15	17	17	16	15	16	16	17	15	15	16	16	17	17					25	30	28	B
190510011065	11	9	82	17	17	17	16	16	15	16	16	17	16	16	17	16	17	16	16	17	16	16	16					37	36	37	A
190510011066	11	9	82	15	15	16	16	17	17	16	16	17	16	17	16	16	17	16	16	16	15	15	16					28	25	27	B
190510011067	11	10	91	15	15	16	15	15	16	16	15	15	17	17	16	16	15	16	17	16	16	17	17					32	36	34	A
190510011068	11	10	91	17	18	18	17	18	19	19	18	19	18	18	17	18	19	19	18	18	17	17	17					38	36	37	A
190510011069	11	9	82	17	17	16	17	16	17	16	16	17	17	16	16	18	18	16	19	18	17	16	16					36	37	20	C
190510011070	11	9	82	13	13	12	12	13	12	12	13	14	14	13	12	12	13	13	12	12	13	13	14					37	37	37	C
190510011071	11	9	82	18	18	17	17	18	18	19	19	18	17	17	18	17	18	17	17	18	19	19	18					38	36	37	A
190510011072	11	10	91	17	17	18	19	19	18	18	17	16	16	17	17	16	17	16	16	17	18	18	16					37	37	37	C
190510011073	11	10	91	16	16	17	16	15	15	16	16	17	16	16	17	16	18	18	17	16	16	15	16					29	38	34	B
190510011074	11	9	82	16	15	16	15	16	16	17	17	16	15	16	16	15	16	17	16	16	15	16	17					30	39	35	A
190510011075	11	10	91	17	16	17	17	18	18	16	16	17	17	18	16	16	17	17	18	17	18	16	17					36	37	37	B
190510011076	11	9	82	18	19	19	17	19	18	19	18	17	18	18	18	18	18	16	19	19	18	18	19					37	38	38	A
190510011077	11	9	82	17	17	18	16	17	17	18	18	19	17	16	16	17	16	18	18	17	17	18	17					39	38	39	A
190510011078	11	9	82	16	16	17	18	18	17	16	16	16	17	18	17	17	18	18	16	17	17	18	17					32	38	35	A
190510011079	11	10	91	18	19	19	18	17	17	18	17	18	18	19	18	17	17	18	19	19	18	18	19					37	38	38	C
190510011080	11	10	91	18	18	17	17	16	16	17	17	16	16	15	16	17	17	17	18	18	19	17	17					38	38	38	A

ROLL NO				Practical: NO. OF CLASSES HELD	Practical: NO. OF CLASSES ATTENDED	Practical: ATTENDANCE										Practical – CONTINUOUS ASSESSMENT (20): EXPT 1	EXPT 2	EXPT 3	EXPT 4	EXPT 5	EXPT 6	EXPT 7	EXPT 8	EXPT 9	EXPT 10	EXPT 11	EXPT 12	EXPT 13	EXPT 14	EXPT 15	EXPT 16	EXPT 17	EXPT 18	EXPT 19	EXPT 20	EXPT 21	EXPT 22	EXPT 23	EXPT 24	SESSIONAL: 1ST SES	2ND SES	AVG	ESE GP
190510011081				11	10	91										16	16	15	16	16	16	17	17	16	17	16	15	17	16	16	17	17	16	15	15					38	38	38	B
190510011082				11	9	82										18	18	17	17	17	16	19	18	18	17	17	18	17	18	17	17	18	18	17	17					37	29	33	A
190510011083				11	9	82										17	17	16	16	18	18	17	19	16	16	17	17	18	18	16	18	18	18	17	17					35	36	36	B
190510011084				11	9	82										16	16	17	17	17	18	18	17	17	16	15	15	15	17	16	16	17	17	16	17					36	35	36	B
190510011085				11	9	82										17	17	18	16	16	17	16	17	15	16	16	17	16	16	17	17	18	17	17	18					29	38	34	B
190510011086				11	10	91										19	19	18	17	17	16	17	16	16	17	18	18	17	17	16	18	18	17	16	19					39	38	39	A
190510011087				11	10	91										17	17	18	16	16	17	18	17	17	18	16	16	17	17	18	18	17	16	16	18					37	37	37	B
190510011088				11	10	91										15	15	17	17	16	15	15	16	17	16	16	17	16	15	16	16	17	16	17	17					36	36	36	C
190510011089				11	10	91										15	16	16	17	17	17	19	18	18	17	16	19	17	15	18	18	17	18	18	17					36	36	36	A
190510011090				11	9	82										17	16	17	17	16	17	16	15	15	16	17	17	18	18	16	18	17	16	18	18					39	37	38	A
190510011091				11	9	82										14	12	12	13	13	14	14	15	15	14	14	16	13	17	16	15	15	17	18	18					28	36	32	C
190510011092				11	9	82										13	14	14	15	13	12	13	12	14	13	12	12	14	15	16	16	17	15	16	16					35	25	30	C
190510011093				11	10	91										15	15	16	16	17	17	18	17	15	16	16	17	16	16	17	17	16	17	17	15					28	37	33	C
190510011094				11	10	91										16	16	17	17	15	15	18	18	19	18	17	17	16	17	18	16	17	17	16	16					37	36	37	B
190510011095				11	9	82										15	16	17	17	18	18	16	15	16	17	16	16	17	17	15	16	17	17	18	18					36	39	38	A
190510011096				11	9	82										12	12	13	12	14	14	15	15	14	14	13	13	12	14	14	13	12	14	15	14					36	27	32	B
190510011097				11	9	82										15	15	17	17	18	18	17	16	16	17	15	15	17	17	15	17	17	15	15	16					29	38	34	C
190510011098				11	10	91										17	17	16	16	17	16	15	15	16	16	17	17	18	16	17	15	16	17	16	17					29	37	33	B
190510011099				11	10	91										17	16	16	17	18	17	16	16	17	17	15	15	16	17	17	18	18	17	17	16					32	37	35	B
190510011100				11	9	82										16	16	17	18	15	15	14	14	15	16	16	15	17	17	16	17	18	18	16	17					36	28	32	D
190510011101				11	10	91										15	16	16	17	16	16	15	15	14	14	15	14	16	16	15	17	16	18	18	16					37	38	38	B
180510011005				11	10	91										18	18	17	17	16	16	15	14	14	15	16	16	17	17	16	16	17	17	18	18					28	38	33	B
										0																																0	
										0																																0	
										0																																0	
										0																																0	
										0																																0	
										0																																0	
										0																																0	

SIGNATURE OF THE TEACHER

ASSESSMENT REPORT

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE				
PROGRAM :	BACHELOR OF PHARMACY (B. PHARM) (New Curriculum - 2017)			
UNIVERSITY :	Assam Science & Technology University			
NAME OF THE SUBJECT :	Theory:	0	Practical	Pharmaceutics I
SUBJECT CODE :	Theory:	0	Practical	BP109P
SESSION :	Aug- December 2019			
NAME OF THE TEACHER(S) :	Asha Das			

ASSESSMENT REPORT		ATTENDANCE	CONTINUOUS ASSESSMENT																								SESSIONAL			ESE
			EXPT 1	EXPT 2	EXPT 3	EXPT 4	EXPT 5	EXPT 6	EXPT 7	EXPT 8	EXPT 9	EXPT 10	EXPT 11	EXPT 12	EXPT 13	EXPT 14	EXPT 15	EXPT 16	EXPT 17	EXPT 18	EXPT 19	EXPT 20	EXPT 21	EXPT 22	EXPT 23	EXPT 24	1ST SES	2ND SES	AVG	
NO. OF STUDENTS SCORED >= 80%		101	69	73	79	79	79	75	75	75	72	77	70	69	74	75	75	78	80	77	77	79	0	0	0	0	73	79	79	40
NO. OF STUDENTS SCORED >= 70%		101	87	87	88	90	92	94	92	91	91	91	88	86	85	89	91	92	88	88	88	91	0	0	0	0	92	93	91	72
NO. OF STUDENTS SCORED >= 60%		101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	0	0	0	0	99	100	99	93
NO. OF STUDENTS SCORED >= 50%		101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	0	0	0	0	101	101	100	96
NO. OF STUDENTS SCORED 0 - 50%		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0

ASSESSMENT REPORT		ATTENDANCE	CONTINUOUS ASSESSMENT																								SESSIONAL			ESE
			EXPT 1	EXPT 2	EXPT 3	EXPT 4	EXPT 5	EXPT 6	EXPT 7	EXPT 8	EXPT 9	EXPT 10	EXPT 11	EXPT 12	EXPT 13	EXPT 14	EXPT 15	EXPT 16	EXPT 17	EXPT 18	EXPT 19	EXPT 20	EXPT 21	EXPT 22	EXPT 23	EXPT 24	1ST SES	2ND SES	AVG	
% OF STUDENTS SCORED >= 80%		99	68	72	77	77	77	74	74	74	71	75	69	68	73	74	74	76	78	75	75	77	0	0	0	0	72	77	77	39
% OF STUDENTS SCORED >= 70%		99	85	85	86	88	90	92	90	89	89	89	86	84	83	87	89	90	86	86	86	89	0	0	0	0	90	91	89	71
% OF STUDENTS SCORED >= 60%		99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	0	0	0	0	97	98	97	91
% OF STUDENTS SCORED >= 50%		99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	0	0	0	0	99	99	98	94
% OF STUDENTS SCORED < 50%		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
NO. OF STUDENTS APPEARED		102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
80% OF STUDENTS SCORED		>80%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	>70%	<50%	<50%	<50%	<50%	>70%	>70%	>70%	>60%
		100	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	0	0	0	0	80	80	80	70

WEIGHTAGE CONTRIBUTION TO RESPECTIVE COURSE OUTCOMES

Weightage	100		20																																					40	40
CO 1		0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
			20										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	28
Weightage	100		20																																		20	20		40
CO 2		0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	0	0.4
			20										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	0	28
Weightage	100		20																																					40	40
CO 3		0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
			20										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	28
Weightage	0																																								
CO 4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weightage	0																																								
CO 5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weightage	0																																								
CO 6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ATTAINMENT OF COURSE OUTCOMES

COs	% OF ATTAINMENT	ATTAIMENT LEVEL	REMARKS
CO 1	80	HIGH	
CO 2	80	HIGH	
CO 3	80	HIGH	
CO 4	0		
CO 5	0		
CO 6	0		

SIGNATURE OF THE TEACHER

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE

PROGRAM :	BACHELOR OF PHARMACY (B. PHARM) (New Curriculum - 2017)			
UNIVERSITY :	Assam Science & Technology University			
NAME OF THE SUBJECT :	Theory:	Pharmaceutics I	Practical	
SUBJECT CODE :	Theory:	BP103T	Practical	
SESSION :	Aug- December 2019			
NAME OF THE TEACHER(S) :	Asha Das			

COURSE OUTCOME ASSESSMENT SHEET

ROLL NO	Theory			Theory								
				SESSIONAL (30)				CONTINUOUS EVALUATION (20)				ESE
	NO. OF CLASSES	NO. OF CLASSES ATTENDED	ATTENDANCE	1ST SES	2ND SES	3RD SES	AVG	CE 1	CE 2	CE 2	AVG	
190510011001	45	43	96	25	25	24	25	18	19	17	18.0	B
190510011002	45	42	93	24	21	9	23	17	18	17	17.3	D
190510011003	45	41	91	22	11	4	17	16	17	18	17.0	D
190510011004	45	43	96	23	15	15	19	17	15	16	16.0	D
190510011005	45	44	98	25	21	11	23	18	16	14	16.0	D
190510011006	45	40	89	26	20	12	23	16	17	19	17.3	D
190510011007	45	45	100	28	24	23	26	19	18	17	18.0	A
190510011008	45	44	98	28	27	24	28	18	18	16	17.3	B
190510011009	45	39	87	25	20	15	23	17	18	16	17.0	D
190510011010												
190510011011	45	40	89	20	24	11	22	17	18	15	16.7	D
190510011012	45	43	96	26	19	0	23	16	17	17	16.7	C
190510011013	45	39	87	11	22	5	17	14	15	15	14.7	F
190510011014	45	39	87	22	11	7	17	17	15	17	16.3	D
190510011015	45	42	93	18	0	8	13	15	15	16	15.3	F
190510011016	45	40	89	28	26	19	27	18	19	17	18.0	B
190510011017	45	39	87	24	18	12	21	17	18	19	18.0	C
190510011018	45	37	82	15	11	15	15	16	16	15	15.7	
190510011019	45	40	89	25	27	23	26	17	16	18	17.0	A
190510011020	45	37	82	19	16	11	18	15	14	14	14.3	F
190510011021	45	38	84	16	0	11	14	15	17	16	16.0	
190510011022	45	36	80	15	0	7	11	15	14	15	14.7	F

SIGNATURE OF THE TEACHER

ROLL NO	Theory						Theory									
	NO. OF CLASSES HELD	NO. OF CLASSES ATTENDED	ATTENDANCE				SESSIONAL (30)				CONTINUOUS EVALUATION (20)				ESE	
							1ST SES	2ND SES	3RD SES	AVG	CE 1	CE 2	CE 3	AVG		
190510011023	45	36	80				24	25	12	25	18	17	18	17.7	B	
190510011024	45	40	89				26	15	12	21	18	18	17	17.7	C	
190510011025	45	37	82				20	17	13	19	17	16	17	16.7	C	
190510011026	45	38	84				21	18	0	20	18	17	17	17.3	C	
190510011027	45	37	82				12	16	13	15	14	15	15	14.7	F	
190510011028	45	36	80				15	13	5	14	14	15	15	14.7	F	
190510011029	45	44	98				22	20	18	21	17	19	19	18.3	B	
190510011030	45	37	82				18	6	6	12	17	16	16	16.3	D	
190510011031	45	38	84				15	0	9	12	14	14	15	14.3	F	
190510011032	45	36	80				9	12	10	11	15	15	16	15.3	D	
190510011033	45	36	80				8	6	0	7	14	14	15	14.3	F	
190510011034	45	42	93				23	0	24	24	18	17	18	17.7	B	
190510011035	45	39	87				17	9	0	13	14	15	13	14.0	F	
190510011036	45	40	89				26	23	25	26	17	18	17	17.3	B	
190510011037	45	41	91				28	22	0	25	19	18	18	18.3	A	
190510011038	45	35	78				4	0	0	2	15	15	16	15.3		
190510011039	45	35	78				0	0	4	2	15	15	15	15.0		
190510011040	45	38	84				19	0	6	13	15	16	16	15.7	D	
190510011041	45	43	96				25	25	21	25	17	16	16	16.3	B	
190510011042	45	36	80				21	19	7	20	17	18	18	17.7	C	
190510011043	45	41	91				24	23	0	24	18	18	17	17.7	B	
190510011044	45	41	91				27	22	22	25	18	18	19	18.3	B	
190510011045	45	40	89				26	27	20	27	19	18	18	18.3	A	
190510011046	45	38	84				25	24	18	25	17	16	17	16.7	C	
190510011047	45	36	80				18	15	0	17	14	15	14	14.3	F	
190510011048	45	36	80				15	15	0	15	14	14	13	13.7	F	
190510011049	45	38	84				24	19	9	22	17	17	16	16.7	D	
190510011050	45	44	98				15	21	18	20	17	18	16	17.0	C	
190510011051	45	40	89				22	22	0	22	17	18	18	17.7	C	

ROLL NO	Theory						Theory								
	NO. OF CLASSES HELD	NO. OF CLASSES ATTENDED	ATTENDANCE				SESSIONAL (30)				CONTINUOUS EVALUATION (20)				ESE
							1ST SES	2ND SES	3RD SES	AVG	CE 1	CE 2	CE 2	AVG	
190510011052	45	39	87				22	14	12	18	15	16	16	15.7	D
190510011053	45	41	91				28	27	21	28	18	19	19	18.7	C
190510011054	45	40	89				22	21	8	22	17	16	16	16.3	D
190510011055	45	42	93				28	24	12	26	18	18	19	18.3	B
190510011056	45	43	96				23	24	21	24	19	17	17	17.7	B
190510011057	45	25	56				0	11	0	6	12	14	13	13.0	
190510011058	45	39	87				28	22	9	25	17	18	19	18.0	B
190510011059	45	41	91				25	18	17	22	16	17	19	17.3	D
190510011060	45	41	91				26	25	24	26	18	19	19	18.7	B
190510011061	45	36	80				13	10	6	12	13	13	14	13.3	F
190510011062	45	39	87				26	20	12	23	16	18	18	17.3	B
190510011063	45	38	84				29	20	22	26	17	17	16	16.7	A
190510011064	45	36	80				0	0	20	10	15	16	17	16.0	D
190510011065	45	39	87				24	19	16	22	17	18	19	18.0	B
190510011066	45	40	89				23	17	13	20	17	16	16	16.3	C
190510011067	45	41	91				21	12	0	17	16	16	17	16.3	D
190510011068	45	40	89				28	24	17	26	17	16	19	17.3	A
190510011069	45	43	96				26	24	14	25	17	17	19	17.7	B
190510011070	45	38	84				18	10	7	14	15	14	13	14.0	F
190510011071	45	42	93				29	22	23	26	17	18	19	18.0	A
190510011072	45	36	80				0	12	18	15	15	16	16	15.7	D
190510011073	45	41	91				27	10	12	20	17	16	19	17.3	C
190510011074	45	36	80				23	15	12	19	16	17	19	17.3	D
190510011075	45	40	89				27	16	14	22	17	17	18	17.3	C
190510011076	45	43	96				29	23	24	27	17	18	18	17.7	O
190510011077	45	43	96				28	20	19	24	18	19	19	18.7	B
190510011078	45	42	93				25	14	19	22	18	16	19	17.7	C
190510011079	45	39	87				29	26	14	28	15	16	18	16.3	A
190510011080	45	39	87				28	19	17	24	17	17	16	16.7	B

SIGNATURE OF THE TEACHE

ROLL NO	Theory						Theory									
	NO. OF CLASSES HELD	NO. OF CLASSES ATTENDED	ATTENDANCE				SESSIONAL (30)				CONTINUOUS EVALUATION (20)				ESE	
							1ST SES	2ND SES	3RD SES	AVG	CE 1	CE 2	CE 2	AVG		
190510011081	45	37	82				27	11	12	20	16	17	17	16.7	D	
190510011082	45	43	96				29	20	17	25	19	17	19	18.3	A	
190510011083	45	42	93				25	18	8	22	19	15	15	16.3	B	
190510011084	45	39	87				20	13	10	17	16	16	18	16.7	D	
190510011085	45	40	89				29	22	17	26	19	16	18	17.7	B	
190510011086	45	41	91				29	25	24	27	19	18	19	18.7	B	
190510011087	45	40	89				24	14	18	21	18	17	19	18.0	C	
190510011088	45	38	84				21	15	0	18	18	17	19	18.0	D	
190510011089	45	41	91				25	0	23	24	19	16	16	17.0	B	
190510011090	45	41	91				28	19	12	24	19	18	18	18.3	C	
190510011091	45	38	84				19	12	11	16	16	17	17	16.7	D	
190510011092	45	36	80				19	14	6	17	16	15	15	15.3		
190510011093	45	40	89				20	15	0	18	19	17	17	17.7	D	
190510011094	45	39	87				26	20	29	28	17	16	18	17.0	C	
190510011095	45	40	89				26	25	15	26	16	18	18	17.3	B	
190510011096	45	36	80				15	0	0	8	12	12	13	12.3	F	
190510011097	45	36	80				29	20	17	25	16	17	17	16.7	C	
190510011098	45	39	87				23	17	13	20	17	16	16	16.3	D	
190510011099	45	39	87				25	0	18	22	15	15	17	15.7	C	
190510011100	45	40	89				18	14	10	16	17	16	16	16.3	D	
190510011101	45	36	80				28	15	13	22	18	17	17	17.3	D	
180510011005	45	42	93				19	23	14	21	18	18	16	17.3	C	
										0						
										0						
										0						
										0						
										0						
										0						
										0						

ROLL NO	Theory			Practical			Theory									
							SESSIONAL (30)				CONTINUOUS EVALUATION (20)				ESE	
	NO. OF CLASSES HELD	NO. OF CLASSES ATTENDED	ATTENDANCE	NO. OF CLASSES HELD	NO. OF CLASSES ATTENDED	ATTENDANCE	1ST SES	2ND SES	3RD SES	AVG	CE 1	CE 2	CE 2	AVG		
										0						
										0						
										0						
										0						
										0						
										0						
										0						0
										0						0
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										0						0
										0						0
										0						0
										0						0
										0						0
										0						0

>80%

>70%

>60%

>50%

<50%

ASSESSMENT REPORT

PROGRAM :	GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE			
UNIVERSITY :	BACHELOR OF PHARMACY (B. PHARM) (New Curriculum - 2017)			
NAME OF THE SUBJECT :	Theory:	Pharmaceutics I	Practical	0
SUBJECT CODE :	Theory:	BP103T	Practical	0
SESSION :	Aug- December 2019			
NAME OF THE TEACHER(S) :	Asha Das			

ASSESSMENT REPORT	ATTENDANCE		SESSIONAL (30)				CONTINUOUS EVALUATION (20)				ESE
			1ST SES	2ND SES	3RD SES	AVG	CE 1	CE 2	CE 3	AVG	
NO. OF STUDENTS SCORED >= 80%	98		52	19	8	35	76	78	81	77	10
NO. OF STUDENTS SCORED >= 70%	100		68	34	17	57	98	99	96	97	34
NO. OF STUDENTS SCORED >= 60%	100		82	53	28	71	101	101	101	101	54
NO. OF STUDENTS SCORED >= 50%	101		91	67	39	84	101	101	101	101	81
NO. OF STUDENTS SCORED 0 - 50%	0		10	34	62	47	0	0	0	0	14

ASSESSMENT REPORT	ATTENDANCE		SESSIONAL (30)				CONTINUOUS EVALUATION (20)				ESE
			1ST SES	2ND SES	3RD SES	AVG	CE 1	CE 2	CE 3	AVG	
% OF STUDENTS SCORED >= 80%	96		51	19	8	34	75	76	79	75	10
% OF STUDENTS SCORED >= 70%	98		67	33	17	56	96	97	94	95	33
% OF STUDENTS SCORED >= 60%	98		80	52	27	70	99	99	99	99	53
% OF STUDENTS SCORED >= 50%	99		89	66	38	82	99	99	99	99	79
% OF STUDENTS SCORED < 50%	0		10	33	61	46	0	0	0	0	14
NO. OF STUDENTS APPEARED	102		102	102	102	102	102	102	102	102	102
80% OF STUDENTS SCORED	>80%		>60%	<50%	<50%	>50%	>70%	>70%	>70%	>70%	<50%
	100		70	0	0	60	80	80	80	80	0

WEIGHTAGE CONTRIBUTION TO RESPECTIVE COURSE OUTCOMES

Weightage	100	20		20			10	10			20	20
CO 1		0.2	0	0.2	0	0	0.1	0.1	0	0	0.2	0.2
		20		14	0	0	6	8	0	0	16	0
Weightage	100	20					20		10		30	20
CO 2		0.2	0	0	0	0	0	0	0.1	0	0.3	0.2
		20		0	0	0	12	0	8	0	24	0
Weightage	100	20					20			20	20	20
CO 3		0.2	0	0	0	0	0.2	0	0	0.2	0.2	0.2
		20		0	0	0	12	0	0	16	16	0
Weightage	100	20					30			10	20	20
CO 4		0.2	0	0	0	0	0.3	0	0	0.1	0.2	0.2
		20		0	0	0	18	0	0	8	16	0
Weightage	0											
CO 5		0	0	0	0	0	0	0	0	0	0	0
		0		0	0	0	0	0	0	0	0	0
Weightage	0											
CO 6		0	0	0	0	0	0	0	0	0	0	0
		0		0	0	0	0	0	0	0	0	0

CO 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ATTAINMENT OF COURSE OUTCOMES

COs	% OF ATTAINMENT	ATTAIMENT LEVEL	REMARKS
CO 1	64	MODERATE	
CO 2	64	MODERATE	
CO 3	64	MODERATE	
CO 4	62	MODERATE	
CO 5	0		
CO 6	0		

10-09-19

SESS

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE

Sessional Examination

B. Pharm, 1st Semester (Sept-2019)

Subject: Pharmaceutics-I (BP103T)

Total Marks: 30 **Time: 1 hour**

1. Answer the following Questions 1X10=10
   - i) Powder containing only one ingredient is known as _____
   - ii) Who is known as father of pharmacy?
   - iii) Give the full form of API
   - iv) Enclosed powders are known as _____
   - v) Give the meaning of Rx
   - vi) Give a example of semi solid dosage form
   - vii) Pharmacopoeia came from the greek word _____ and _____
   - viii) Give the meaning of " Bis –in-die"
   - ix) Give the meanings of "mitte"
   - x) Give the meaning of "Fiat"

2. Answer the following Questions (Any two) 2X5=10
   - i) Write a note on scope in pharmacy
   - ii) Explain the steps involved in handling of prescription
   - iii) Write the Different types of Errors in Prescription

3. Answer the following Questions (Any One) 1X10=10
   - i) Elaborate the different types of Dosage Form

   Or

   - ii) Write the different parts of prescription.

i) One p.p.m. is

i) 1mg/kg ii) 1g/kg

iii) 10mg/kilogram iv) Non of the above

j) Ferritin & haemosiderin are iron storage protein found in-

i) Haemoglobin

ii) Liver

iii) Myoglobin

iv) Parenchymal iron

Q.No. 2. Answer any two of the following Questions:

1) What is Buffer Capacity. Derive the Henderson-Hasselbach equation for acid and base. 1+4=5

2) Explain the mechanism of buffer action and importance of buffer solutions in pharmacy. 3+2=5

3) What is conjugate acid and conjugate base? Explain the three acid base theories? 1+4=5

Q.No.3. Answer any one of the following Questions:

1) a) What are expectorants. How do they act? Write the assay of ammonium chloride. 2.5+2.5=5

b) What are emetics? Write the synonym, preparation, uses and assay of copper sulphate. 1+4=5

2) a)What are haematinics? Write the synonym, preparation, uses & assay of ferrous sulphate. 5

b) Write a note on buffered isotonic solution. 5

ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

B. Pharm 1st Semester

Subject: Pharmaceutics I

Subject Code: BP109P

BATCH A

Time = 4 hrs **Full Marks = 35**

1. Synopsis 5

2. MAJOR EXPERIMENT 15

   A. To compound and dispense 6 boric acid suppository.
   B. To comound and dispense 40 g of non staining iodine ointment

3. MINOR EXPERIMENT 10

   a) To compound and dispense 5g of ORS powder.
   b) To compound and dispense 30 g of lime cream.

4. Viva Voice 5

DATE:

External Examiner **Internal Examiner**

ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

B. Pharm 1st Semester

Subject: Pharmaceutics I

Subject Code: BP109P

BATCH B

Time = 4 hrs

Full Marks = 35

1. Synopsis 5

2. MAJOR EXPERIMENT 15

   C. To compound and dispense 50 ml castor oil emulsion.

   D. To compound and dispense 50ml of liquid paraffin emulsion

3. MINOR EXPERIMENT 10

   c) To compound and dispense 5g of antiseptic dusting powder

   d) To compound and dispense 40g of zinc oxide starch paste.

4. Viva Voice 5

DATE

External Examiner

Internal Examiner

ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

B. Pharm 1st Semester

Subject: Pharmaceutics I

Subject Code: BP109P

BATCH D

Time = 4 hrs

Full Marks = 35

1. Synopsis 5

2. MAJOR EXPERIMENT 15

   C. To compound and dispense 6 boric acid suppository.

   D. To comound and dispense 50ml of castor oil emulsion.

3. MINOR EXPERIMENT 10

   c) To compound and dispense 30ml of antacid mixture

   d) To compound and dispense 5 ml of turpentine liniment

4. Viva Voice 5

DATE:

External Examiner

Internal Examiner

AM: SCIENCE AND TECHNOLOGY UNIVERSITY

B. Pharm 1st Semester

Subject: Pharmaceutics I

Subject Code: BP109P

BATCH C

Time = 4 hrs

Full Marks = 35

1. Synopsis 5

2. MAJOR EXPERIMENT 15

   C. To compound and dispense 50ml of liquid paraffin emulsion.

   D. To compound and dispense 40g of non staining iodine ointment

3. MINOR EXPERIMENT 10

   c) To compound and dispense 25ml milk of magnesia.

   d) To compound and dispense 50ml of benzyl benzoate application

4. Viva Voice 5

DATE:

External Examiner

Internal Examiner

Nov, 2019

Girijananda Chowdhury Institute of Pharmaceutical Science
B.Pharm 1st semester, 3rd Sessional Examination, Nov. 2019
Subject: Pharmaceutical Inorganic Chemistry
(Subject Code: BP104T)

Full Marks-30 Time-1hr

1. Answer the Following Questions (Multiple choice) 1×10=10

i. Barium sulphate is used as-
a) X-ray detector b) diagnostic aid c) Electrolyte replenisher d) None of the above

ii. 1st edition of B.P. published in-
a) 1985 b) 1864 c) 1855 d) 1865

iii. 3rd edition of I.P. published in-
a) 1985 b) 1986 c) 1987 d) 1988

iv. Which one of these is radioactive?
a) I^{131} b) I^{126} c) I^{132} d) I^{127}

v. Deliquescent materials have tendency to-
a) Absorb moisture b) Loss water c) Both c) None

vi. Which of the following use for the detection & measurement of radiation?
a) Photographic emulsions b) Semiconductor detectors
c) Geiger Muller counter d) All

vii. Which of the following is Lugol's solution?
a) Weak Iodine solution b) Aqueous iodine c) Strong Iodine d) None of the above

viii. Milk of Magnesia is-
a) Hydrated magnesium silicate b) Hydrated magnesium oxide
c) Dehydrated magnesium hydroxide d) Hydrated magnesium hydroxide

ix. What is true about antacid?
a) It is an alkaline substance b) Used for inhibiting the release of acid
c) Water soluble in nature d) All of the above

x. Antiflatulant compound used with the antacids for which purpose?
a) To maintain the pH of GIT b) To dispense the foam
c) To avoid the interaction with absorption of metals
d) To minimize the effect of evolved CO_2

2. Answer the following questions (Any two) 2×5=10

a) Define Antiseptics and Disinfectants. Write the mechanism of action of antimicrobials.
b) Define antacid with example. Write four ideal properties of antacid. Classify antacid with examples.
c) Write about the GM counter with schematic diagram.

3. Answer the following Questions (Any One) 1x10=10

a) i) Write the chemical formula, preparation, properties, use, assay of Hydrogen peroxide. 5
ii) Write the storage condition & pharmaceutical applications of radioactive substances. 1+4=5

b) i) Write in short the various sources of impurities in pharmaceutical substances. 5
ii) What is the purpose of addition of hydrochloric acid in sulphate limit test. Write the principle of sulphate limit test as per I.P. 1985. 1+4=5

GIRIJANANDA CHOWDHURY INSTITUTE OF PHARMACEUTICAL SCIENCE

11-10-19

B. Pharm 1st Semester 2nd Sessional Examination (Oct 2019)

Subject: Pharmaceutics-I (BP103T)

Total Marks: 30 **Time: 1 hour.**

Q.1. Answer the following Questions 1X10=10

i) When the action of one drug is opposed by the other drug on same physiological system is known as-

a)Synergism b)Antagonism c)Additive effect d)Idiosyncrasy

ii) Wafer capsules are known as-

a)Cachets b) Snuffs c)Dusting powders d)None of the above.

iii) Dusting powders are dispensed in

a)Butter paper b)Glass container c)Sifter top container d)Flat metal boxes.

iv) Clark's formula can be given by-

a)Dose for the child= Age in years/Age in years+12 X Adult dose

b)Dose for the child =Age in years /20 X Adult dose

c)Percentage of adult dose = Surface area of child/Surface area of adult X 100

d)None of the above.

v) Following method is used for solubility enhancement technique-

a) Heating b)Emulsification c)Co-solvency d)Sifting.

vi) Following are adjuncts used in the syrups except-

a)Potable water b)Raspberry juice c)Tweens d)Glycerin.

vii) Elixirs contain ethyl alcohol of-

a)4-5% b)5-40% c)50-100% d)9-18%

viii) In throat paints _____ should be used as base

a)Ethyl alcohol b)Glycerin c) Sucrose d)None of the above.

ix) _____ should not be applied to the broken skin.

a)Lotions b)Dusting powder c)Liniments d) None of the above.

x) The labelling for enemas should include the following-

a) " For external use only" b)"Shake well before use"

c) "For rectal use only" d) All of the above.

Q.2.Answer the following Questions (Any two) 2X5=10

i)What do you mean by "Posology"? Define various factors affecting posology.

ii)What is mixture?Classify it.

iii)Write short notes on the following-

a)Liniments

b)Lotions.

Q.3.Answer the following Questions (Any One) 1X10=10

i)Write about various solubility enhancement techiques.

Or

ii)What is powder?Classify it elaborately.