(LM 2005) MARCH 2018 Sub. Code: 2005

B.PHARM. DEGREE EXAMINATION PCI Regulation SEMESTER – I PAPER III – PHARMACEUTICS – I

Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Prescription. Discuss various parts of prescription with an example.
- 2. Define Emulsion. Write the methods of preparations and identification tests for determination of types of Emulsion.
- 3. Define Suppository. Classify suppository bases. Explain in detail the methods of preparation and write the ideal properties of suppository bases.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Write about the Career opportunities in Pharmacy profession.
- 2. Define dosage forms and give its classification.
- 3. a) Prepare 150 ml of 4% potassium permanganate solution and label with directions for preparing 500ml of 1 in 2500 solution.
 - b) Prepare 400ml of 70% alcohol from 95% alcohol (By Alligation).
- 4. Write note on: Hygroscopic, Efflorescent & Deliquescent powders.
- 5. Define Syrup. Write the advantages, disadvantages and methods of preparations.
- 6. Distinguish the following with examples:
 - a) Lotions with Liniments. b) Gargles with Mouth washes.
- 7. Differentiate Flocculated and Deflocculated suspensions.
- 8. What are the causes of Physical incompatibilities and how to overcome?
- 9. Define Ointment. Write the types and ideal properties of ointment bases.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Define Pharmacopoeia and list out the Pharmacopoeias which are being referred extensively.
- 2. Excipients used in formulation of liquid dosage forms.
- 3. Write the formulae by which doses can be calculated depending on age.
- 4. Define Proof Spirit.
- 5. Write the classification of Powders.
- 6. Write about Eutectic mixtures.
- 7. What is Draught?
- 8. Define Suspension and give examples of suspending agents.
- 9. What is therapeutic Incompatibility and write the sources of errors?
- 10. Define Gels. What are the different gelling agents?

(LN 2005) SEPTEMBER 2018 Sub. Code: 2005

B.PHARM. DEGREE EXAMINATION PCI Regulation SEMESTER – I FIRST YEAR PAPER III – PHARMACEUTICS – I

O.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define posology. Discuss the factors affecting selection of dose.
- 2. Classify powders with suitable examples. Write a note on advantages and disadvantages of powders.
- 3. Define incompatibility. Explain therapeutic incompatibility with examples.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Brief note on Indian pharmacopoeia.
- 2. Write about eutectic and effervescent powders.
- 3. Discuss physical stability of suspension.
- 4. Differentiate ointments and pastes.
- 5. Give the classification of emulsifying agents with examples.
- 6. Discuss the evaluation tests for suppository.
 - a) Calculate the quantity of sodium chloride required for 500 ml of a 0.9 percent solution.
 - b) Prepare 600 ml of 60 percent alcohol from 95 percent alcohol.
- 7. Write about the preparation of Gels.
- 8. Write a note on handling of prescription.
- 9. What are throat paints? Give the preparation of any one official throat paint.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. What is a Pharmacopoeia?
- 2. Define superscription.
- 3. Give Fried's formula.
- 4. What is proof spirit?
- 5. What are efflorescent powders?
- 6. What do you mean by organoleptic additives?
- 7. What is a co solvent? Give an example.
- 8. How do you lubricate a suppository mould?
- 9. What is Forbe's method?
- 10. What is degree of flocculation?

(LO 2005) MARCH 2019 Sub. Code: 2005

B.PHARM. DEGREE EXAMINATION PCI Regulation SEMESTER – I PAPER III – PHARMACEUTICS – I

Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Discuss the various solubility enhancement techniques.
- 2. Write the mechanism of dermal penetration. Explain the method of preparation of creams.
- 3. What are suspensions? Give classification of suspensions. Explain different components used for preparation of suspension.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Discuss history and development of profession of pharmacy in India.
- 2. Discuss different errors in prescription.
- 3. a) How will you prepare 200 ml of 60 percent alcohol from 90 percent and 50 percent alcohols.
 - b) Calculate the dose for a 9 years old child when the adult dose is 250mg.
- 4. Discuss the bulk powders which meant for external use.
- 5. Write a note on Elixir. Give the difference between Syrup and Elixir.
- 6. Discuss the Suspending agents used to stabilize the suspensions.
- 7. Write note on Instability of emulsions.
- 8. Explain how Suppositories are evaluated.
- 9. Give the fusion method preparation of ointment with a suitable example.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. What do you understand by Indian Pharmacopoeia?
- 2. Give advantages and disadvantages of liquid dosage form.
- 3. What is an inscription?
- 4. How pediatric dose is calculated on the basis of body weight?
- 5. Give the types of dusting powders.
- 6. What are Preservatives? Give an example.
- 7. What are Ear drops?
- 8. Give the qualities of a good suspension.
- 9. What are Emulsifying agents? Give examples.
- 10. Differentiate between ointments and pastes.

(LP 2005) SEPTEMBER 2019 Sub. Code: 2005

B.PHARM. DEGREE EXAMINATION PCI Regulation SEMESTER – I PAPER III – PHARMACEUTICS – I

Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define semisolids. Write about different ointment bases.
- 2. Differentiate flocculated and deflocculated suspension. Write a note on stability problems of suspensions.
- 3. Write the evaluation tests for Ointments.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Write in brief about Pharmacy as a career.
- 2. Write about errors in prescription.
- 3. Explain geometric dilution.
- 4. Give the formulation of elixir with suitable examples.
- 5. Explain solubility enhancement methods.
- 6. Write the various tests to identify the type of emulsion.
- 7. Give the properties of an ideal suppository base.
- 8. Write in brief about alkaloidal incompatibility with suitable examples and methods to overcome it.
- 9. Write the factors affecting dermal penetration of drugs.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Define mouthwash and gargle.
- 2. What is an excipient? Give example.
- 3. Write any two dose calculation formulas based on age.
- 4. What is Extra Pharmacopoeia?
- 5. Define isotonic solution.
- 6. What are efflorescent powders?
- 7. What is phase inversion?
- 8. What is a flocculating agent?
- 9. What is Lugol's solution?
- 10. Use of calamine and bentonite in calamine lotion.

[LR 0121] JANUARY 2021 Sub. Code: 2005

(MARCH 2020 EXAM SESSION) B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER – I PAPER III – PHARMACEUTICS - I

Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Dosage forms. Classify various types of dosage forms with examples and mention its advantages and disadvantages.
- 2. Define and classify Emulsion. Discuss about types of emulsifying agent and elaborate on various methods of emulsion preparation and stability problems associated with emulsion on storage.
- 3. Define Incompatibility. Explain about different types of incompatibility with suitable examples and mention about its remedies.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Write in detail about different edition and volumes of Indian Pharmacopoeia.
- 2. Explain about different parts of Prescription.
- 3. Enumerate the factors affecting Posology.
- 4. Give the complete classification of powders with example
- 5. a. Calculate the volume of each of 90%, 60%, 30% of alcohol and water required to produce 500 ml of 50% alcohol.
 - b. What % strength corresponds to 40° O/P and 50° U/P?
- 6. Mention the difference between Lotion and Liniment.
- 7. Differentiate Flocculated and Deflocculated system.
- 8. Give the property of Ideal suppository base.
- 9. Explain in detail about preparation and evaluation of Gels.

III. Short answers on: Answer ALL questions.

- 1. What is Martindale?
- 2. Imperial and Metric system
- 3. Methods used for measuring Isotonicity.
- 4. Write about Fried's rule.
- 5. Explain Forbe's method.
- 6. Is there any need of suspending agent in milk of Magnesia? Why.
- 7. Write about Calibration of suppository mould.
- 8. Characteristics of Hygroscopic powders. Give example.
- 9. Define Enema and mention its type.
- 10. Ideal properties of Ointment base.

[BPHARM 0921] SEPTEMBER 2021 Sub. Code: 2005

(SEPTEMBER 2020 EXAM SESSION)

B.PHARM. DEGREE EXAMINATION PCI Regulation 2017 – SEMESTER I PAPER III – PHARMACEUTICS - I Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Pharmacopoeia. Explain about its significance. Give a brief review on the development of Indian Pharmacopoeia and British Pharmacopoeia.
- 2. Define Posology. Enumerate the factors affecting posology. How paediatric dose is calculated on the basis of age, bodyweight and body surface area.
- 3. Define Incompatibility. Describe about various types of incompatibility with examples and provide its remedies.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Explain about different parts of Prescription.
- 2. a. How much ml of 30% dextrose in water and 60% dextrose in water are needed to make 750 ml of 45% dextrose in water?
 - b. What % strength corresponds to 40^0 O/P and 60^0 U/P
- 3. Discuss about Powders used for external use with examples
- 4. Write about method of preparation of Throat Paint and its application.
- 5. Differentiate Flocculated and Deflocculated suspension.
- 6. Explain different methods of preparation of Emulsion.
- 7. Describe the properties of Ideal suppository base.
- 8. What are pastes? Give its salient features .Comment on preparation of paste.
- 9. Classify gels and enlist components used in preparation of gels.

III. Short answers on: Answer ALL questions.

- 1. Mention two stability problems associated with Emulsion.
- 2. Difference between Simple and Compound powder. Give example
- 3. If the adult dose is 60 mg and the age of child is 6 years what will be the dose for the child according to Dilling's rule.
- 4. Convert 90% v/v alcohol into its proof strength.
- 5. Explain Synergistic effect.
- 6. What is mean by Counter irritant? Give example.
- 7. Write about Diffusible and Indiffusible solids.
- 8. Define the term Displacement value.
- 9. Define emulsion.
- 10. Mention about types of Ointment bases.

[BPHARM 0122] JANUARY 2022 Sub. Code: 2005 (MARCH 2021 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 – SEMESTER I PAPER III – PHARMACEUTICS - I Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Prescription. Explain about different parts of Prescription. Discuss about handling of Prescription and rectification of Errors in Prescription.
- 2. Define and classify Suppositories. Explain about different method of preparation and its ideal properties.
- 3. Define and classify Gels. Explain in detail about preparation and evaluation of Gels

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Give note on the different edition and volumes of Indian Pharmacopoeia.
- 2. a. How much ml of 20% dextrose in water and 50% dextrose in water are needed to make 750 ml of 35% dextrose in water?
 - b. What % strength corresponds to 30° O/P and 40° U/P?
- 3. Give the complete classification of Powders with example.
- 4. Discuss about different excipients used in Liquid dosage forms?
- 5. Define Syrup. Mention its type and method of preparation.
- 6. Elaborate different stability problems associated with Emulsions and mention how to overcome it.
- 7. Write the difference between Flocculated and Deflocculated suspension.
- 8. What is meant by Physical incompatibility? Give examples.
- 9. What are Pastes? Give its salient features .Comment on preparation of Paste.

III. Short answers on: Answer ALL questions.

- 1. What is Extra Pharmacopoeia?
- 2. If the adult dose is 60 mg and the age of child is 4 years what will be the dose for child according to Young' rule?
- 3. What is Ostwald Ripening?
- 4. Give a note on Flocculation.
- 5. How to avoid Creaming in emulsion?
- 6. Define Microemulsion.
- 7. What is Zwitterion? Give Example.
- 8. What is meant by Synergistic effect?
- 9. What is the direction to be given while taking effervescent powders?
- 10. Write about Pessaries.

[BPHARM 0522] MAY 2022 Sub. Code: 2005

(SEPTEMBER 2021 EXAM SESSION)

B.PHARM. DEGREE EXAMINATION PCI Regulation 2017 – SEMESTER I PAPER III – PHARMACEUTICS - I Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Prescription. Write a brief note on parts of the prescription and handling of prescription.
- 2. What are Powders? Classify the powders with examples. Add a note on efflorescent powder.
- 3. Define suppositories. Write about the suppository bases.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Differences between Lotions and Liniments
- 2. Write the formulas involved in the calculation of child dose.
- 3. Give a brief note on Indian pharmacopoeia.
- 4. Explain the methods to improve solubility of drugs.
- 5. Write a brief note on various methods to prepare emulsion
- 6. Give a brief note on Therapeutic Incompatibility
- 7. What are the Excipients used in semisolid dosage forms?
- 8. Classify the dosage forms with examples.
- 9. What are the various factors affecting Posology?

III. Short answers on: Answer ALL questions.

- 1. Define Proof spirit.
- 2. What is stokes law?
- 3. Write about Pessaries.
- 4. What are Geometric dilutions?
- 5. Define Throat paints.
- 6. What is displacement value?
- 7. What are Gels?
- 8. What is the role of emulsifying agent in emulsion formation?
- 9. What is meant by degree of flocculation
- 10. What are elixirs?

[BPHARM 1022] OCTOBER 2022 Sub. Code: 2005 (MARCH 2022 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 – SEMESTER I PAPER III – PHARMACEUTICS - I Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Posology. What are the factors affecting Posology?
- 2. Define emulsion. Explain in detail stability problems of emulsion and methods to overcome it.
- 3. Define Incompatibility. Explain in detail about the chemical incompatibility along with reasons and methods to rectify it.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Explain the role of pharmacist in handling of prescription.
- 2. Write about aqueous bases of suppositories.
- 3. a. Convert 90% v/v alcohol into Proof strength.
 - b. Calculate the dose for a child having BSA 0.83m²
- 4. Write a note on the opportunities in career of pharmacy.
- 5. Explain about various types of Powder.
- 6. Write about the Preparation of Gels.
- 7. Explain any one type of Therapeutic incompatibility.
- 8. Differentiate Ointments and Pastes.
- 9. Explain the methods of preparing syrups.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Define Syrups.
- 2. What is Stokes law?
- 3. What are suspending agents?
- 4. Write Dilling's formula and Clark's formula to calculate child's dose.
- 5. Define Idiosyncrasy.
- 6. What are gels and creams?
- 7. What do you mean by organoleptic additives?
- 8. What are the advantages of suppositories?
- 9. Define Gargles.
- 10. What are stabilizers?

[B.PHARM 0323] MARCH 2023 Sub. Code: 2005 (SEPTEMBER 2022 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 – SEMESTER I PAPER III – PHARMACEUTICS - I

Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. What are Biphasic Liquid dosage forms? Describe in detail about the various types and method of preparation of Emulsion.
- 2. Classify liquid dosage forms with examples. What are the advantages and disadvantages of liquid dosage forms? Explain formulation of Liquid dosage forms.
- 3. Define Suppository. What are its advantages and disadvantages? Explain its preparation techniques.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Write a brief note on Pharmacy as a career.
- 2. Explain the various types of dosage forms for external use.
- 3. What are the various parts of prescription?
- 4. Give a note on factors that affect the calculation of doses.
- 5. Explain a) Hygroscopic powders b) Dusting powders.
- 6. What are the various excipients used in formulating semisolid dosage forms?
- 7. a. In what proportion should alcohols of 50 % and 20% strength be mixed to prepare 500 ml of 25% alcohol?
 - b. Calculate the quantity of sodium chloride required for 200ml of 0.9% solution.
- 8. How to overcome Physical incompatibilities? Explain with examples.
- 9. Explain deflocculated suspension.

III. Short answers on: Answer ALL questions.

- 1. What is Subscription?
- 2. Give Fried formula.
- 3. What is cosolvent?
- 4. Write any one method to identify emulsion.
- 5. What is solid dispersion?
- 6. What are eutectic mixtures?
- 7. Define enemas.
- 8. Define the term Synergism.
- 9. Define Pastes.
- 10. What are the advantages of suppositories?

[B.PHARM 0823] AUGUST 2023 Sub. Code: 2005 (MARCH 2023 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 – SEMESTER I PAPER III – PHARMACEUTICS – I

Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Posology. Write in details about the factors influencing the dose of drug.
- 2. Describe the different additives used in the formulation of liquid dosage form with examples.
- 3. Define and Classify Emulsion. Explain the stability problems in Emulsion.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Write the details about career opportunities in Pharmacy Profession.
- 2. Why a drug should be converted into dosage form.
- 3. Explain the parts of prescription.
- 4. Write the methods to adjust the tonicity.
- 5. Discuss the methods of mixing of powders.
- 6. Differentiate Lotion and Liniment.
- 7. Discuss the therapeutic incompatibility with examples.
- 8. Write in detail about bases used for suppository.
- 9. Excipients used in semi solid dosage form.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Insufflations.
- 2. Synergism and Antagonism.
- 3. What is dusting powder?
- 4. Write about Eutectic mixture.
- 5. What are density modifiers?
- 6. Define Gargles and Mouthwash.
- 7. Classification of Suspension.
- 8. Define Displacement value.
- 9. Viscosifier.
- 10. Types of Ointment base.

[B.PHARM 1223] DECEMBER 2023 Sub. Code: 2005 (SEPTEMBER 2023 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 – SEMESTER I PAPER III – PHARMACEUTICS – I

Q.P. Code: 562005

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Prescription. Write in detail about the parts of Prescription with an example.
- 2. Define and Classify Powders. Write in detail about the mixing technique of Powders.
- 3. Define and classify Incompatibility. Explain the Physical Incompatibility with examples.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Write in detail about Pharmacopoeia.
- 2. Define and classify the dosage forms with examples.
- 3. Explain the Errors in Prescription.
- 4. What Isotonic solutions? Differentiate between hypotonic and hypertonic solutions.
- 5. Explain Dusting powder and Effervescent powder with examples.
- 6. Differentiate Ointment and Paste.
- 7. Discuss the Excipients used in the formulation of liquid dosage forms with examples.
- 8. Write in detail about displacement value and its calculations.
- 9. Write the evaluation technique of semisolid dosage forms.

III. Short answers on: Answer ALL questions.

- 1. Young's formula for child dose.
- 2. Define Poultices.
- 3. What are hygroscopic powders?
- 4. Write about density modifier.
- 5. What are Organoleptic agents?
- 6. Define Syrup.
- 7. Flocculated Suspension.
- 8. Bases used in suppositories.
- 9. What are Elixirs?
- 10. Define Ointment.