

## B.Pharm I Year I Semester (R19) Supplementary Examinations February 2023

**PHARMACEUTICS - I**

(For 2019, 2020 &amp; 2021 admitted batches only)

Time: 3 hours

Max. Marks: 75

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
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|--|----|
| (a) Define Posology.                     | 2M |
| (b) What are all semisolid dosage forms? | 2M |
| (c) What is minimum weighable amount?    | 2M |
| (d) What is isotonic solution?           | 2M |
| (e) Define Nasal drops.                  | 2M |
| (f) What are types of emulsions?         | 2M |
| (g) What is Pessaries?                   | 2M |
| (h) Define Incompatibility.              | 2M |
| (i) Define Cream.                        | 2M |
| (j) Define Paste.                        | 2M |

**PART – B**

(Answer any two questions: 02 X 10 = 20 Marks)

- |   |     |
|---|-----|
| 2 (a) Detail on bases used in preparation of Pastes.                          | 5M  |
| (b) Discuss in detail Eutectic mixtures.                                      | 5M  |
| 3 Give a detail note on suppository bases.                                    | 10M |
| 4 Discuss in detail stability problem of emulsion and methods to overcome it. | 10M |

**PART – C**

(Answer any seven questions: 07 X 05 = 35 Marks)

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|--|----|
| 5 Write short notes on parts of prescription with example.                         | 5M |
| 6 Write short notes on effervescent granules with example.                         | 5M |
| 7 Write in detail organoleptic additives used in liquid dosage forms with example. | 5M |
| 8 Define and explain preparation of Gargles with example.                          | 5M |
| 9 Define and explain the preparation of Enema with example.                        | 5M |
| 10 Write short notes on physical incompatibility.                                  | 5M |
| 11 Explain the evaluation of suppositories.  | 5M |
| 12 Write bases used for ointments.   | 5M |
| 13 Write the mechanism involved in penetration of drugs through skin.              | 5M |

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## B.Pharm I Year I Semester (R19) Regular Examinations July 2022

**PHARMACEUTICS – I**

(For 2021 admitted batches only)

Time: 3 hours

Max. Marks: 75

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
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|---|----|
| (a) What are the errors in prescription?                            | 2M |
| (b) Write a short note on Indian pharmacopeia.                      | 2M |
| (c) Give a note on isotonic solutions.                              | 2M |
| (d) What are the advantages of liquid dosage forms?                 | 2M |
| (e) Write a note on stability problems in emulsions.                | 2M |
| (f) Write a short note on syrups.                                   | 2M |
| (g) Give an account on displacement value.                          | 2M |
| (h) Write a note on chemical incompatibilities.                     | 2M |
| (i) Give the evaluation parameters for semi solid dosage forms.     | 2M |
| (j) What are the factors affecting for dermal penetration of drugs? | 2M |

**PART – B**

(Answer any two questions: 02 X 10 = 20 Marks)

- |   |    |
|---|----|
| 2 (a) Give a detailed note on emulsions.  | 5M |
| (b) Discuss about ointments and pastes with examples.                                 | 5M |
| 3 (a) Write classification, mechanisms and excipients used in liquid dosage forms.    | 5M |
| (b) Write a detailed note on suspensions, flocculation and deflocculation procedures. | 5M |
| 4 (a) Discuss about efflorescent and hygroscopic powders with examples.               | 5M |
| (b) Give an account on pharmacy education in India, pharmacy as a career.             | 5M |

**PART – C**

(Answer any seven questions: 07 X 05 = 35 Marks)

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|--|----|
| 5 Explain about factors effecting posology and pediatric dose calculations.                            | 5M |
| 6 Discuss in detailed imperial and metric systems with examples.                                       | 5M |
| 7 Write about advantages, disadvantages and solubility enhancement techniques for liquid dosage forms. | 5M |
| 8 Describe about classification, advantages & disadvantages of simple and compound powders.            | 5M |
| 9 Explain about stability problems in suspensions and note on methods to overcome them.                | 5M |
| 10 Write about displacement value and its calculations.  | 5M |
| 11 Describe about excipients used and evaluation studies for semisolid dosage forms.                   | 5M |
| 12 Write about method of preparation, stability problems and methods to overcome in emulsions.         | 5M |
| 13 Explain about liniments and lotions with examples.  | 5M |

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B.Pharm I Year I Semester (R19) Supplementary Examinations March 2021  
**PHARMACEUTICS – I**

Time: 3 hours

Max. Marks: 75

**PART – A**  
(Compulsory Question)

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Answer the following: (10 X 02 = 20 Marks)

- (a) Define the terms drug, dosage form, pharmacopoeia and posology.
- (b) What is the dose of paracetamol for a child of 18 months old, if the adult dose is 500 mg.
- (c) Define proof spirit. Convert 35%v/v of alcohol to proof spirit.
- (d) How do you dispense a prescription contains eutectic mixtures?
- (e) Differentiate between Lotions and Liniments.
- (f) Classify the emulsions with suitable examples.
- (g) How do you dispense 6 suppositories each containing 120 mg of boric acid with cocoa butter as base using 1g mould (displacement value of boric acid is 1.5)?
- (h) Write a note on insolubility effect arising due to physical incompatibility with remedy.
- (i) Differentiate between pastes and ointments.
- (j) Write a short note on gels.

**PART – B**  
(Answer any two questions: 02 X 10 = 20 Marks)

- 2 (a) Discuss about the development of pharmaceutical industries in India.  
(b) Discuss about different parts of prescription and give their importance.
- 3 (a) Calculate the proportions of 50% v/v, 30% v/v, 25% v/v alcohol and water to prepare 250 ml of a 15%v/v alcohol solution using allegation method.  
(b) Discuss about preparation methods of emulsions with examples and add a note on liquid paraffin emulsion.
- (a) Classify the suppository bases with suitable examples and discuss the preparation methods of suppositories.  
(b) Classify ointment bases with suitable examples and add note on preparation methods of ointments.

**PART – C**  
(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 (a) Write a note on handling of prescription.  
(b) Write the factors affecting dose of a patient and discuss about Idiosyncrasy and Tachyphylaxis.
- 6 (a) Calculate the dose for a child of 10 kg weight for a drug for which the adult dose is 500 mg.  
(b) Explain different formulae used to calculate child doses of a drug.
- 7 (a) How will you dispense efflorescent and hygroscopic substances?  
(b) Find out the proportion of NaCl required to prepare 50ml of 2% w/v solution of Ephedrine HCl isotonic with blood plasma (F.P of 1% w/v of Ephedrine HCl is  $-0.030^{\circ}\text{C}$ ; F.P of 1%w/v of NaCl is  $-0.576^{\circ}\text{C}$ ).

Contd. in page 2

- 8 (a) Convert 35% v/v; 72% v/v to proof spirit and 22° OP; 35° UP to proof strength.  
(b) Write a note on dusting powders.
- 9 (a) Write a note on Mandl's paint.  
(b) Write a note on calamine lotion.
- 10 (a) Write a note on Stokes law.  
(b) Differentiate between emulsions and suspensions.
- 11 (a) Give the importance of displacement value in suppository preparation.  
(b) Write about therapeutic incompatibility.
- 12 Discuss any two of chemical incompatibility.
- 13 (a) Classify semisolid dosage forms with examples.  
(b) Discuss the excipients used in the preparations of ointments.

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B.Pharm I Year I Semester (R19) Supplementary Examinations September 2022  
**PHARMACEUTICS – I**

(For 2019, 2020 & 2021 admitted batches only)

Time: 3 hours

Max. Marks: 75

**PART – A**  
 (Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
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|---|----|
| (a) Write a note on industry and organization.              | 2M |
| (b) Give an account on handling of prescription.            | 2M |
| (c) Define freezing point and molecular weight.             | 2M |
| (d) Define eutectic mixtures & geometric dilutions.         | 2M |
| (e) Write a short note on syrups.                           | 2M |
| (f) Write role & importance of emulsifying agents.          | 2M |
| (g) Define displacement value & its calculation.            | 2M |
| (h) List the factors affecting dermal penetration of drugs. | 2M |
| (i) Write therapeutic incompatibilities with examples.      | 2M |
| (j) Write evaluation parameters for liquid dosage forms.    | 2M |

**PART – B**

(Answer any two questions: 02 X 10 = 20 Marks)

- |   |    |
|---|----|
| 2 (a) Write about history of pharmacy education and importance of pharmacy profession in India.                     | 5M |
| (b) Explain about parts, errors, importance and handling of prescription.   | 5M |
| 3 (a) Classification, advantages and disadvantages excipients and solubility techniques for liquid dosage forms.    | 5M |
| (b) Discuss in detail about suspensions with examples.  | 5M |
| 4 (a) Explain about types, advantages, disadvantages methods of preparation & evaluation studies for suppositories. | 5M |
| (b) Give the mechanisms, factors, excipients and evaluation studies for semisolid dosage forms.                     | 5M |

**PART – C**

(Answer any seven questions: 07 X 05 = 35 Marks)

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|---|----|
| 5 Write about careers in pharmacy profession.   |    |
| 6 Write introduction, classification, definitions of dosage forms with examples.        | 5M |
| 7 Discuss about isotonic solutions and proof spirit with examples.                      | 5M |
| 8 Explain stability techniques and role of excipients used in preparation of emulsions. | 5M |
| 9 Write about ear drops and nasal drops with examples.                                  | 5M |
| 10 Write about physical incompatibilities with examples.                                | 5M |
| 11 Discuss about ointments and pastes with examples.                                    | 5M |
| 12 Write about displacement value and its calculations.                                 | 5M |
| 13 Discuss in detail imperial and metric systems with examples.                         | 5M |

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