

DEPTH OF BIOLOGY

B. PHARMACY

1 SEM IMPORTANT QUESTIONS

PHARMACEUTICS

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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.

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10 MARKS

1. Write short note on prescription. Discuss its part, handling and error prescription
2. Write a short note on posology and factors affecting it

5 MARKS

1. Explain classification of dosage form

2 MARKS

1. Define posology

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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

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10 MARKS

1. Explain liquid dosage form, write it's advantages and disadvantage also write the excipient used in formulation of liquid dosage form

5 MARKS

1. Write a short note on powder, it's classification, advantage & disadvantage
2. Explain eutectic mixture
3. What is geometric dilution?

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2 MARKS

1. What is proof spirit?
2. Define eutectic mixture
3. What is geometric dilution?

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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 & stability problems and methods to overcome.
- **Emulsions:** Definition, classification, emulsifying agent, test for the identification of type of Emulsion, Methods of preparation & stability problems and methods to overcome.

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10 MARKS

1. Short note on emulsion
2. Short note on suspension

5 MARKS

1. Difference between flocculated and deflocculated suspension
2. Write the stability problems and method to overcome in emulsion
3. Write the stability problems and method to overcome in suspension
4. Test for identification of emulsion

2 MARKS

1. Definition of eardrop, syrup, mouthwash, gargles

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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.

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10 MARKS

1. What is suppositories? Write its types, advantage, disadvantage and method of preparation
2. Write short note on pharmaceutical incompatibilities

5 MARKS

1. Write the evaluation of suppositories
2. What are different types of bases in suppositories

2 MARKS

1. What is displacement value?

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UNIV – V

07 Hours

- **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

5 MARKS

1. Write evaluation of semi solid dosage form