

**First Semester B.Pharm Degree Supplementary Examinations**  
**June 2019**

**Pharmaceutics- I**

**(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- **Answer all questions**
- **Write equations wherever necessary**

**Essay**

**(2x10=20)**

1. Explain in detail about the formulation factors, method of preparation and evaluation of suspension.
2. Describe about creams and gel as topical formulations with suitable examples

**Short Notes**

**(7x5=35)**

3. What are the solubility enhancement techniques used in the preparation of liquid dosage forms.
4. What are the factors influencing dermal penetration of drugs.
5. Define posology. Add note on pediatric dose calculation based on age and body weight.
6. Differentiate between flocculated and deflocculated suspensions
7. What is Pharmacopoeia. Add note on salient features of BP and USP.
8. Physical incompatibility.
9. Calculate the amount of sodium chloride that should be added to the following formulation of nasal drops to make the final solution isotonic. [The freezing point depression 1%w/v of Ephedrine hydrochloride solution is  $0.165^{\circ}\text{C}$  and 1%w/v of sodium chloride solution is  $-0.576^{\circ}\text{C}$ ]

<b>Ingredients</b>	<b>Quantity</b>
Ephedrine hydrochloride	0.5
Water	100ml

**Answer Briefly**

**(10x2=20)**

10. Give examples for therapeutic incompatibility.
11. What are the composition of ORS powder
12. Name the common ingredients used in formulation of pastes"
13. What are nasal drops
14. Mention the commonly used emulsifying agents.
15. Define the term "displacement value".
16. Justify: Theobroma oil is an ideal suppository base.
17. Give the uses of turpentine liniment.
18. What are the various parts of prescription
19. What general labelling instruction is needed on emulsion

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