

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]  
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**B. Pharmacy 5th Semester Examination**  
**Pharmaceutics-V (Pharmaceutical Technology-I) (O.S.)**  
**HBP-303**

**Time : 3 Hours**

**Max. Marks : 80**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Answer five questions in all. Select one question each from Section A, B, C and D. Question No. 9 of Section E is compulsory.

**SECTION - A**

1. (a) Write briefly (giving examples) about preservatives used in pharmaceutical formulations for oral and parenteral purposes. (8)  
(b) Comment on the physico chemical factors influencing percutaneous permeation of drugs. (8)
2. (a) Describe the tests and methodology used for evaluating the stability of suspensions. (8)  
(b) Discuss the various types of ointment bases used for formulating topical ointments. (8)

**SECTION - B**

3. (a) What are suppositories? Discuss the melting type of bases used in their formulation (giving examples). (8)  
(b) Enumerate and briefly discuss the factors influencing extraction of active principles from natural sources. (8)
4. (a) Write briefly about the evaluation of suppositories. (8)  
(b) Discuss the Soxhlet process of extraction. (8)

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**[P.T.O.]**

**SECTION - C**

5. (a) What is dried human plasma? Describe its preparation and mention the conditions in which it is used. **(8)**
- (b) What are the advantages of an aerosol formulation? Mention the formulation ingredients of an aerosol formulation and outline the process of manufacturing them with the help of a flow diagram. **(8)**
6. (a) What is human fibrin foam? Mention its uses and its preparation. **(8)**
- (b) Enumerate the tests employed for evaluating aerosols and give a brief account of each test. **(8)**

**SECTION - D**

7. (a) Enumerate the requirements of vehicles used for ophthalmic preparations. Mention the tests conducted on ophthalmic solutions. **(8)**
- (b) Enumerate the constituents of nail polish and nail polish remover. Justify the use of each ingredient in these formulations. **(8)**
8. (a) Comment on the quality control of glass containers and closures used for packaging ophthalmic products. **(8)**
- (b) Enlist and justify the ingredients of a hair removing cream. **(8)**

**SECTION - E  
(COMPULSORY)**

9. (a) Write briefly about colors used in oral products.
- (b) Differentiate between dry and soft liquid extracts.
- (c) Give examples of plasma substitutes and their use.
- (d) Mention the ingredients and properties desired of eye lashes. **(4×4=16)**