

**PHARMACEUTICS**

**Practicals Syllabus:**

1. Handling and referring the official references: Pharmacopoeias, Formularies, etc. for retrieving formulas, procedures, etc.
2. Formulation of the following dosage forms as per monograph standards and dispensing with appropriate packaging and labelling
  - **Liquid Oral:** Simple syrup, Piperazine citrate elixir, Aqueous Iodine solution
  - **Emulsion:** Castor oil emulsion, Cod liver oil emulsion
  - **Suspension:** Calamine lotion, Magnesium hydroxide mixture
  - **Ointment:** Simple ointment base, Sulphur ointment
  - **Cream:** Cetrimide cream
  - **Gel:** Sodium alginate gel
  - **Liniment:** Turpentine liniment, White liniment BPC
  - **Dry powder:** Effervescent powder granules, Dusting powder
  - **Sterile Injection:** Normal Saline, Calcium gluconate Injection
  - **Hard Gelatin Capsule:** Tetracycline capsules
  - **Tablet:** Paracetamol tablets
3. Formulation of at least five commonly used cosmetic preparations – e.g. cold cream, shampoo, lotion, toothpaste etc
4. Demonstration on various stages of tablet manufacturing processes
5. Appropriate methods of usage and storage of all dosage forms including special dosage such as different types of inhalers, spacers, insulin pens
6. Demonstration of quality control tests and evaluation of common dosage forms viz. tablets, capsules, emulsion, sterile injections as per the monographs

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3.	To prepare and submit 50 ml of Aqueous Iodine solution (I.P.).	
4.	To prepare and submit 50 ml of Castor oil emulsion.	
5.	To prepare and submit 50 ml of Cod liver oil emulsion.	
6.	To prepare and submit 50 ml of Calamine lotion.	
7.	To prepare and submit 50 ml of Magnesium hydroxide mixture.	
8.	To prepare and submit 50 gm of Hydrophilic Petrolatum Simple ointment base (Absorption Base).	
9.	To prepare and submit 50 gm of Sulphur Ointment.	
10.	To prepare and submit 50 gm of Cetrimide cream.	
11.	To prepare and submit 50 gm of Sodium alginate gel.	
12.	To prepare and submit 50 gm of Turpentine liniment BP.	
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14.	To prepare and submit 50 gm of Effervescent powder granules (BPC).	
15.	To prepare and submit 50 gm of Dusting powder (BPC).	
16.	To prepare and submit 50 ml Normal Saline Sterile Solution.	
17.	To prepare and submit 50 ml Calcium gluconate Injection Solution.	
18.	To prepare and submit 20 Tetracycline capsules.	
19.	To prepare and submit 20 Paracetamol tablets.	
20.	To prepare and submit 50 gm Cold cream.	
21.	To prepare and submit 50 gm Vanishing cream.	

22.	To prepare and submit 100 ml Shampoo.	
23.	To prepare and submit 50 gm Tooth Paste.	
24.	To prepare and submit 50 ml Lotion.	
25.	To demonstration various stages of tablet manufacturing processes by the help of suitable diagram.	
26.	To Demonstration of quality control tests and evaluation of tablet dosage form (According to monograph).	
27.	To Demonstration of quality control tests and evaluation of Capsule dosage form (According to monograph).	