

[Time: - 3 Hours]

[Marks: 80]

- N.B: 1. All questions are compulsory**
2. Figures to the right indicate full marks

- Q.1.a Classify dosage forms (2)
- Q.1.b Define i) Compounding and ii) Dispensing (2)
- Q.1.c Write in brief about dispensing of proprietary medicines (2)
- Q.1.d What should be the concentration of a stock solution of sodium chloride if dilution of 250 ml of the concentrated solution on dilution up to 2 litres with distilled water yields a 1:6000 solution. (2)
- Q.1.e Explain any 2 tests to differentiate between o/w and w/o emulsion (2)
- Q.1.f Define gels. Give any TWO examples of gelling agents. (2)
- Q.1.g Discuss the manufacturing of pills. (2)
- Q.1.h Give any one example of physical incompatibility. How would you overcome the same? (2)
- Q.1.i Define pharmaceutical care and enlist its principles (2)
- Q.1.j Enumerate the benefits and risks involved in the use of OTC medicines. (2)
- Q.2.a Classify routes of administration. Differentiate between oral and parenteral routes. (4)
- Q.2.b Highlight the container-closure system and labelling directions for (any TWO) (4)
 i) Suspension ii) Ointment iii) Lozenge
- Q.2.c Enlist the various methods for formulating an emulsion. Explain any TWO in detail. (4)
- Q.3.a Define a prescription. Explain its various parts in detail (4)
- Q.3.b Give the details of various ointment bases used (4)
- OR** (4)
- Describe in detail the procedure to compound and dispense suppositories made using cocoa butter as the base
- Q.3.c Write a note on effervescent granules (4)
- Q.4.a How would you formulate a suspension containing an indiffusible solid (4)
- OR** (4)
- Classify solutions. Describe in brief any TWO solutions meant for external application.
- Q.4.b Comment on the following prescription (4)
 Rx
 Calciferol solution 0.15 ml
 Glycerine 0.3 ml
 Water q.s. 1 ml
 Send 50 ml for a 3 year old child
 Label : 5 ml to be taken daily with meals
- Q.4.c Discuss the responsibilities of a community pharmacist in the modern healthcare scenario (4)
- Q.5.a Define "health" as per WHO. Give the significance and methods used for health screening. (4)
- Q.5.b Discuss the steps involved in patient counselling. (4)

Q.5.c Paraphrase the code of ethics for a pharmacist in relation to his job as laid down by the Pharmacy Council of India. (4)

Q.6.a How many grams of ointments containing 30% w/w zinc oxide, 15% w/w zinc oxide and simple ointment should be mixed to produce 500 grams of ointment containing 20% w/w zinc oxide? (4)

Q.6.b Comment on the following prescription (4)
Rx
Hyoscine hydrobromide 100 µg
Lactose qs
Send 5 sachets weighing 120 mg each.
Label: One powder to be taken 30 mins prior to journey

Q.6.c i) Give the causative agents for the following diseases: (2)
i) Whooping cough
ii) Cholera
iii) Tetanus
iv) AIDS
ii) What is a balanced diet? Give its significance. (2)
