

[Time: - 3 Hours]

[ Marks: 80]

Please check whether you have got the right question paper.

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

- |    |    |  |   |
|----|----|--|---|
| 1. | a) | Classify dosage forms.   | 2 |
|    | b) | Define i) Compounding and ii) Dispensing   | 2 |
|    | c) | Write in brief about dispensing of proprietary medicines.  | 2 |
|    | d) | Calculate the dose for a 8 year old patient if the adult dose of the same drug is 250 mg.                              | 2 |
|    | e) | Define emulsion. Classify emulsifying agents.  | 2 |
|    | f) | Enlist the advantages and disadvantages of powders as a dosage form.   | 2 |
|    | g) | Enumerate the advantages and disadvantages of pills.   | 2 |
|    | h) | Give anyone example of chemical incompatibility. How would you overcome the same?                                      | 2 |
|    | i) | Enlist the principles of pharmaceutical care.  | 2 |
|    | j) | Give any 4 examples of OTC products.   | 2 |
| 2. | a) | Enlist the various routes of administration. Explain the oral route in detail.   | 4 |
|    | b) | Highlight the container-closure and labelling directions for (any TWO).  | 4 |
|    |    | i. Emulsion                                  ii. Suppository                                  iii. Lozenge             |   |
|    | c) | Comment on the following prescription.   | 4 |
|    |    | Rx   |   |
|    |    | Calciferol solution - 0.15 ml  |   |
|    |    | Glycerin - 0.3 ml  |   |
|    |    | Water (q.s.) to - 5 ml   |   |
|    |    | Label: 5 ml to be taken daily  |   |
| 3. | a) | Define a prescription and explain its various parts.   | 4 |
|    | b) | Classify ointment bases. Describe any ONE base in detail.  | 4 |
|    |    | <b>OR</b>  |   |
|    |    | Describe in detail the disadvantages of cocoa butter as a suppository base.  |   |
|    | c) | Discuss compounding and dispensing of effervescent granules in detail.   | 4 |
| 4. | a) | How would you formulate a suspension containing an indiffusible solid?   | 4 |
|    |    | <b>OR</b>  |   |
|    |    | Classify solutions. Describe in brief any TWO solutions meant for oral use   |   |
|    | b) | Discuss the compounding and dispensing of cocoa butter suppositories.  | 4 |
|    | c) | Discuss the responsibilities of a community pharmacist.  | 4 |
| 5. | a) | Define "health" as per WHO. Discuss the areas in which a pharmacist can get involved to promote health of a community. | 4 |

TURN OVER

- b) What is patient counselling? Give its significance. Describe in brief the steps involved in patient counselling. 4
- c) Paraphrase the code of ethics for a pharmacist in relation to his trade as laid down by the Pharmacy Council of India. 4
6. a) How many ml of 1: 5000 w/v solution of preservative benzalkonium chloride can be made from 125 ml of 0.2 % solution. 4

OR

- In what proportions should ointments containing 25% w/w sulphur, 15% w/w sulphur and 5% w/w sulphur be mixed to produce an ointment containing 20% w/w sulphur 4
- (b) Comment on the following prescription. 4

Rx

Hyoscine hydrobromide 200  $\mu$ g

Lactose qs

Send 4 packets of divided powders.

Label: One powder to be taken 30 mins prior to journey

- c) i. What is a balanced diet? Give its significance 2
- Give the causative agents for the following diseases: 2
- Diphtheria
  - Typhoid
  - Scabies
  - Tetanus