st 2012 (a) 38 n. 6265-12. Phurmacy / Sem-II (ATIET/ phurmaceutics-II

(REVISED COURSE)

CN-4936

| | | | (2 Hours) | | [Total Marks | : 40 |
|-----|-----------------|---|-----------|---------------|---------------|------|
| N. | | (1) Question No. 1 is compulsory. (2) Attempt any three questions from Question Nos. 2 to 5. (3) Draw neat labelled diagrams wherever necessary. (4) Figures to the right indicate full marks. | | | | |
| (a) | Defin | e/state the following (any | five) :- | | | 5 |
| | (i) | Porosity | (ii) | Ear Drops | | |
| | (iii) Diffusion | | (iv) | Linctus | | |
| | (v) | Angle of repose | (vi) | Throat paint. | | |
| (b) | Answ | er the following (any five) | :- | | | 5 |

- (i) What is the role of pH adjustment in Dakin's Solution? (ii) Give storage conditions for aromatic waters.
 - (iii) State the principle of coulter counter method for particle size determination.
 - (iv) Differentiate between syrup and invert syrup.
 - (v) Why Kaolin should be sterilized before its use in pharmaceutical products?
 - (vi) What are tamper-proof containers and what is their importance?
- 2. (a) What is preformulation? Give the significance of partition coefficient in formulation development. (b) Discuss preservatives and antioxidants used in liquid oral products. 3 (c) Discuss in brief the alternate solution method for preparation of aromatic waters.
- 3. (a) Enumerate the quality control tests for liquid oral preparations. 5 (b) State Noves-Whitney equation and discuss briefly the factors affecting the rate of dissolution.
 - (c) Discuss briefly the pharmaceutical applications of complexation. 2
- 4. (a) With the help of a neat labelled diagram, explain the construction and principle of operation of hammer mill.
 - (b) Explain size separation based on the principle of sedimentation. 3
 - (c) Discuss in brief the Andreason's Pipette method for determination of particle size. 3
- 5. (a) Enumerate the advantages and disadvantages of plastics as packaging material for liquid products.
 - (b) State and derive Fick's first law of diffusion. 3
 - (c) Write a note on Oral Rehydration preparations. 3