

22<sup>nd</sup> May, 13

Pharmaceutics-II (Rev). A.T.K.T

22/5/13

Sem. II (Rev.) ATKT- Pharmaceutics- II

23 : 1st half.13-shilpa(f)

Con. 2375-13.

(REVISED COURSE)

DC-7210

(2 Hours)

[Total Marks : 40

- N.B. :**
- (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.

1. (a) Define / State the following (any **five**) :- 5
  - (i) Noyes-Whitney equation
  - (ii) Tamper - proof closures
  - (iii) Porosity
  - (iv) Liniment
  - (v) Ear drops
  - (vi) Dusting powder.
- (b) What is polymorphism ? Discuss the importance of polymorphism in formulation development. 3
- (c) Differentiate between deionised water and distilled water. 2
  
2. (a) Give reasons (any **four**) :- 4
  - (i) Chloroform water should be stored away from light.
  - (ii) Propylene glycol is used in paracetamol pediatric drops.
  - (iii) Kaolin should be sterilized before use in pharmaceutical products.
  - (iv) Invert syrup is sweeter than syrup I.P.
  - (v) Amount of feed and speed are critical in working of Ball mill.
- (b) With the help of a neat labelled diagram, explain the principle and working of a fluid energy mill. 4
- (c) Write a note on preservatives used in monophasic liquid oral products. 2
  
3. (a) Answer any **two** :-
  - (i) Discuss the applications of complexation in pharmaceutical products. 3
  - (ii) State and derive Fick's First law of Diffusion. 3
  - (iii) Discuss glass as a packaging material for monophasic liquid oral products. 3
- (b) Explain the determination of particle size by Andreason's Pipette method. 4

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4. (a) Attempt any **two** :-
- (i) Discuss in brief the method of preparation of an elixir. 3
  - (ii) Write a note on ORS. 3
  - (iii) Explain particle size separation based on fluid classification method using continuous settling chamber. 3
- (b) Enumerate the quality control tests for monophasic liquid preparations. 4
5. (a) Discuss the theory involved in preparation of Cresol with soap solution I.P. 1966. 3
- (b) Discuss tumbler mixers for powder mixing. 3
  - (c) Give the labelling and storage directions for Magnesium Citrate Solution. 2
  - (d) Write a note on Dry Syrup formulations. 2

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