

MT-605 Seat No. _____
Diploma in Pharmacy (Part-I) Examination
May / June – 2003
Pharmaceutics – I

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Attempt any **three** questions from each section.
(2) Tie both sections **separately**.
(3) All questions carry **equal** marks.

SECTION – I

- 1** (a) Define Size Reduction. What are the objects of size reduction?
(b) Explain principle, construction, working, advantages, disadvantages and applications of Ball-Mill.
- 2** (a) Write note on Cyclone Separator.
(b) Find out the amount of Sodium Chloride required to render 100 ml of 3% w/v solution of sulphacetamide sodium solution isotonic with tears :
FPD of 1% sulphacetamide-Na = -0.132°C
FPD of 1% NaCl = -0.58°C
FPD of tears = -0.52°C
- 3** (a) Explain :
– Clarification
– Filtration.
Explain factors affecting rate of filtration.
(b) Explain construction, working, advantages, disadvantages and applications of plate and frame filter press.
- 4** (a) Explain Mixing. Explain different types of Mixtures with example.
(b) Write note on Planetary Mixer.

- 5 (a) Define :
- Extraction
 - Menstruum
 - Marc.
- Explain different steps for Percolation Process.
- (b) How many parts of 80%, 65%, 32% and 20% Alcohol to be mixed together so as to give 40% alcohol.

SECTION - II

- 6 (a) Define Tablets. Classify the Tablets.
(b) Explain formulation ingredients with examples.
- 7 (a) What are the different steps involved in capsules dosage form formulation ?
(b) State different Distillation Processes.
- 8 (a) Write note on Rectification.
(b) Classify Immunological product.
- 9 (a) Classify different sterilization methods. Write note on Autoclave.
(b) Q. C. tests of Tablets.
- 10 Write notes on **three** :
- (a) Latest IP
 - (b) Fluid bed drier
 - (c) Glass as a container
 - (d) Modern drug delivery systems.