Kalol Institute of Pharmacy

Pharmaceutics-II

Mid Term Internal Exam 2009

2nd semester B.Pharmacy

Roll No: Max. Marks: 20

Date: 31/03/2009 Time: 11:00 a.m. to 12:00 p.m.

Q-1 Answer any two questions: (8)

1. Define size reduction. Describe in brief factors to be considered in selection of proper mill.

2. Define size separation. Differentiate sedimentation and elutriation. Write a note with labeled diagram on multiple stage elutriations.

3. Suggest suitable method/ and or equipment for following:
   a) For 'dry granules', 'fresh leaves' and 'oleo-gum resins'.
   b) Preparation of relatively viscous parenteral emulsion.
   c) Mixing of base during ointment manufacturing.
   d) To reduce the size of solid drugs 1/8 inch to 100 mesh.

Q-2 Answer any two questions: (8)

1. Define mixing. Differentiate between 'Positive mixture', 'Negative mixture' and 'Neutral mixture'. Write factors affecting mixtures properties.

2. Discuss mechanisms of liquid mixing and solid mixing. Classify mixing equipments for semisolids.

3. Define crystallization. Write in brief applications and mechanism of crystallization.

Q-3: Comments on the following (4)

a) Speed of rotation is very important in ball mill
b) In hammer mill product particle size is influenced by mill.
c) Sticky material can not be size reduced by ball mill.

1.