MALIBA PHARMACY COLLEGE, TARSADI

B.PHARM SECOND SEMESTER

MID SEMESTER EXAMINATION, MARCH 2009

PHARMACEUTICS-II (220002)

DATE : 01/04/09 TIME : 12:30 p.m. to 3:30 p.m.

MAXIMUM MARKS : 100

Instructions :

1- All questions carry equal marks
2- Attempt any five questions.
3- Numbers to the right indicate marks of the question.

1. Answer the following questions briefly. (20)

1) Write the principle of micronizer.
2) Differentiate between sedimentation and Elutriation
3) Write the classification of powder as per its particle size.
4) What do you understand by convective and turbulent mixing?
5) What is the principle of cyclone separator?
6) Define Size Reduction and Size separation.
7) Define Mixing and Random mix.
8) Give few examples of typical pharmaceutical mixing application.
9) Comment: Vitamin's particle size can be reduced in hammer mill
10) Comment: Speed of rotation of ball mill is an important parameter for efficient size reduction.

2. Answer the following questions

1) Explain all standards of powders (B.P.) and sieves . Discuss different materials used to construct the sieves. (5)
2) Explain all methods of size separation with labeled diagram. (5)
3) Write a short note on factors affecting choice of extraction process (5)
4) Write a short note on Solvents of extraction process. (5)

3. Answer the following questions

1) Describe the Principle of Solid-Liquid extraction process (10)
2) Write the application of size separation in pharmacy. Discuss Carr'index, Hausner's ratio, Angle of repose. [10]

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4. Answer the following questions

1) Define Compression and Compaction process in pharmacy. Describe in detail its application. (10)

2) Define Unit operation. Explain in detail the objectives of Mixing and discuss types of Mixtures with examples. (10)

5. Answer the following questions

1) Classify the mixers. (5)

OR

1) Explain the factors affecting size-reduction. (5)

2) Explain principle, working, merits and demerits of Ball Mill. (5)

3) Explain the mechanism of Solid-Solid (powder) mixing. (4)

4) How can you minimize segregation? (3)

5) Explain briefly the mechanism of liquid-liquid mixing (3)

6. Answer the following questions

1) What are baffles ? Give its importance. (3)

2) Explain in detail the mixers used for liquid-liquid mixing with diagram (10)

3) Differentiate the characteristics of Axial, Radial and Close-Clearance impellers. (5)

OR

3) Explain in detail the construction, working, merits and demerits of Fluid Energy mill with labeled diagram. (5)

4) Classify size reduction equipments. (2)

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