

Hemchandracharya North Gujarat University, Patan

Bachelor of Vocation

Pharmaceutical Chemistry Semester II

Mid SEM Examination, March 2017

Subject: Pharmaceutics- Unit operation (PC 414)

Time: 2 hrs

Date: 31/3/2017

Marks: 60

Q.1 Answer any 12 questions. Each question carries 1 mark

[12*1=12]

1. Define Size reduction.
2. What is size separation.
3. Give the example of positive Mixture.
4. Enlist factor affecting solid mixing.
5. Match of the following

Mechanism	Particle size(μm)
A) Cutting	1-50
B) Compressin	100-80,000
C) Attrition	50-10000
6. _____ & _____ mill are work on impact & attrition mechanism.
7. What is negative mixing?.
8. True /False: Ointment is Neutral mixture.
9. Define: Gum
10. Match of the following

Size separation method	Diameter(μm)
A) By Sieving	2-50
B) By Cyclone separator	5-1000
C) By gravitation Sedimentation	5-10000
11. Write use of hammer mill.
12. Disintegrator reduce particle _____. (50-800, 1-50)
13. Define: Mixing

Q.2 Answer any 5 questions. Each question carries 04 marks

[5*4=20]

1. Write a factors affecting Size Reduction Method.
2. Brief on Colloidal mill.
3. Write a difference between propeller mixer & turbine mixer.
4. Write a note on Mill which work in Impact mechanism.

5. Write objective of mixing.
6. Write a significance of size reduction.

Q.3 Answer any 4 questions. Each question carries 07 marks

[4*7=28]

1. Write a note on Sieve method.
2. Give classification of Mixer.
3. Short note on Elutriation.
4. Write about principle, construction, working & use of Ball mill.
5. Write a note on Fluid energy mill.