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Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester IV
Internal Examination, March 2018
Subject: Pharmaceutics- Unit operation (PC 414)

Time: 2 hrs

Date: 02/04/2018

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. Enlist factor affecting solid mixing.
4. Match of the following

Mechanism	Particle size(μm)
A) Cutting	1-50
B) Compressin	100-80,000
C) Attrition	50-10000
5. ___ & ___ mill are work on impact & attrition mechanism.
6. Which is Example of negative mixing.
A)NaCl In Water B)Sugar in Water C) Suspension D)Ointment
7. True /False: Ointment is Neutral mixture.
8. Define: Crystalization
9. 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
10. Write use of hammer mill.
11. Disintegrator reduce particle _____. (50-800, 1-50)
12. Define: Mixing
13. Give Objective of Mixing.

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

[5*4=20]

1. Brief on Cyclon Separator
2. Brief on Colloidal mill.
3. Write a Mechanism Of Size Reduction.
4. Write a note on Mill which work in Impact mechanism.
5. Write a Type of Mixture.
6. Write a significance of size reduction.

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

[4*7=28]

1. Give classification of Mixer.
2. Short note on Size Separation.
3. Write about principle, construction, working & use of Ball mill.
4. Write a note on Fluid energy mill.
5. Note on Crystalization.