

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation

Pharmaceutical Chemistry Semester IV

Internal Examination, March 2019

Subject: Pharmaceutics- Unit operation (PC 414)

Time: 2 hrs

Date:28/03/2019

Marks: 60

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

[12*1=12]

1. Define Mixing.
2. What is Size Reduction.
3. Match of the following
Mechanism Particle size(μm)
A) Cutting 1-50
B) Compression 100-80,000
C) Attrition 50-10000
4. _____ & _____ mill are work on impact & attrition mechanism.
5. True /False: Paste is Neutral mixture.
6. Define: Crystallization
7. Write use of hammer mill.
8. Define: Crystallization.
9. Enlist factor affecting Mixing Which is Example of Negative mixing.
A)NaCl In Water B)Sugar in Water C) Suspension D)Ointment
10. Give Objective of Mixing
11. Impact & Attrition mechanism reduce particle Size up to _____ μm .
12. Write a step of Crystallization.
13. Enlist mode of size reduction.

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

[5*4=20]

1. Brief on Colloidal mill.
2. Differentiate Turbine Mixer & Propeller Mixer.
3. Write a Mechanism Of Size Reduction.
4. How to achieve Super saturation for crystallization?
5. Write a Type of Mixture.
6. Brief on Homogenizer & silverson emulsifier.

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

[4*7=28]

1. Write a note on Ball mill.
2. Short note on Type of Crystal.
3. Write a note on Jet mill.
4. Give classification of Mixer
5. Note on significance & factor affecting size reduction.