

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BPHARM – SEMESTER – II • EXAMINATION – WINTER 2012**

**Subject code: 220002****Date: 17-01-2013****Subject Name: Pharmacuetics - II****Time: 10:30 am – 01:30 pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|-------------|--|-----------|
| <b>Q.1</b>  | (a) Describe with diagrams Mechanism, applications and also variants of Ball-Mill                                      | <b>06</b> |
|             | (b) Write a note on mechanisms of size reducyion   | <b>05</b> |
|             | (c) Write a note on wet-grinding.  | <b>05</b> |
| <b>Q.2</b>  | (a) What is the difference between 'Sedimentation' and 'Elutriation'.?Describe with diagram multiple stage elutriator. | <b>06</b> |
|             | (b) Describe with diagrams 'Cyclone seperator'.  | <b>05</b> |
|             | (c) Write a note on standards for powders.   | <b>05</b> |
| <b>Q.3</b>  | (a) With a neatly labeled diagram describe working and applications of planetary mixer.                                | <b>06</b> |
|             | (b) Write a note on types of Mixtures.   | <b>05</b> |
|             | (c) Discusss mechanisms of Liquid Mixing.  | <b>05</b> |
| <b>Q.4</b>  | (a) Describe with a neatly labeled diagram working and applications of Swensen-Walker Crystallizer.                    | <b>06</b> |
|             | (b) Discuss limitations of Miers theory of supersaturation.  | <b>05</b> |
|             | (c) Write a note on Crystal Size Control.  | <b>05</b> |
| <b>Q.5</b>  | (a) Describe in brief theory of Drug extraction,   | <b>06</b> |
|             | (b) What are the difficulties in extacting crude vegetable   | <b>05</b> |
|             | (c) Write a note on solvents for drug extactions.  | <b>05</b> |
| <b>Q. 6</b> | (a) Discuss in brief effect of compression forces on a bed of granules.  | <b>06</b> |
|             | (b) Explain in brief Kawakita equation.State it's applications in tablet dosage form.                                  | <b>05</b> |
|             | (c) Writw a note on instrumentation of a tablet machines.  | <b>05</b> |
| <b>Q.7</b>  | (a) Give an overview of various types of industrial hazards.   | <b>06</b> |
|             | (b) Enlist various types of temperature measuring devices used in industry.Discuss in detail ant two.                  | <b>05</b> |
|             | (c) Discuss in brief various presure measuring instuments used in industries.  | <b>05</b> |

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