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Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

BPHARM – SEMESTER II (OLD Syllabu	s) • EXAMINATION – SUMMER • 2015
Subject code: 220002	Date: 30-05-2015

Subject code: 220002 Subject Name: Pharmaceutics-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.

Q.1	(a) (b) (c)	Explain the theories related to size reduction of a powder. Explain about cyclone separator and its usefulness. Explain turbine and propeller type mixer with flow pattern.	06 05 05
Q.2	(a) (b) (c)	(i) Explain various grades of powder. (3)(ii) Describe modes of motion in size separation. (3)Describe Swenson-Walker crystallizer with suitable diagramDescribe the factors affecting size reduction	06 05 05
Q.3	(a) (b) (c)	Explain terms with examples, positive, negative and neutral mixture. Explain the theory of compaction and compression. Discuss theory of Extraction of drugs	06 05 05
Q.4	(a) (b) (c)	Describe Mier's supersaturation theory. What are its limitations? Write a note on hammer mill with a neat diagram. Discuss in brief various pressure measuring instruments used in industries.	06 05 05
Q.5	(a) (b) (c)	Describe pharmacopoeial standards of sieve. Describe the factors affecting mixing. Write a note on electrical and fire hazards.	06 05 05
Q. 6	(a) (b) (c)	Explain the effect of compressional force on powders/granules. Explain Kawakita equation and its use in compression. What are safety precautions to be observed in pharmacy laboratory? Define crystallization. Write a detailed note on crystal habit and polymorphism.	06 05 05
Q.7	(a) (b) (c)	Elaborate the elements of automatic process control system. Write a detailed note on percolation and maceration method of extraction. Classify the size separation methods. Write a note on any one of them.	06 05 05
