

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-I Remedial examination March 2009

Subject code: 210005

Subject Name: Pharmaceutics - I

Date: 18 / 03 /2009

Time: 10:30am-1:30pm

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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|-------------|--|-----------|
| Q.1 | | 16 |
| | (a) Describe the factors affecting the rate of filtration. | |
| | (b) Describe the construction and working of rotary vacuum filter. | |
| Q.2 | | 16 |
| | (a) Enumerate the applications of centrifugation in pharmacy. | |
| | (b) Describe the construction and working of perforated bowl centrifuge. | |
| Q.3 | | 16 |
| | (a) What is rectification? | |
| | (b) Write a brief note on packed columns. | |
| | (c) How is steam distillation carried out? | |
| Q.4 | | 16 |
| | (a) Explain the drying rate curve. | |
| | (b) Describe the working of any one of the industrial dryer. | |
| Q.5 | | 16 |
| | (a) How is humidity measured? | |
| | (b) Discuss the applications of psychometric chart. | |
| Q. 6 | | 16 |
| | (a) Describe the factors affecting evaporation. | |
| | (b) Draw a labeled diagram of triple effect evaporator. | |
| | (c) Explain Raoult's law. | |
| Q.7 | Write short notes on (<i>Any Two</i>) of the following: | 16 |
| | (a) Mechanism of filtration | |
| | (b) Calculations in single effect evaporator | |
| | (c) Applications of humidity in pharmacy. | |
