GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. - SEMESTER-1 • EXAMINATION – SUMMER -2018

| Subject Code: 210005Date: 0Subject Name: Pharmaceutics - I | | | Date: 01/05/2018 | 1/05/2018 | |
|--|-------------------|---|------------------|----------------|--|
| Time: 02:30 PM TO 05:30 PMTotal Marks: 80Instructions:1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks. | | | | | |
| Q.1 | (a) (b) (c) | Discuss rotary drum filter in detail. What are the mechanisms of filtration? Discuss in detail. Write a note on cartridge filters. | | 06 05 05 | |
| Q.2 | (a) (b) (c) | Discuss theory on centrifugal effect. Write principle, construction and working of perforated bask Differentiate filtration and centrifugation. | cet centrifuge. | 06 05 05 | |
| Q.3 | (a) (b) (c) | Write a note on filter aid. Discuss the factors affecting evaporation. Describe the multiple effect evaporators with labeled diagram | n. | 06 05 05 | |
| Q.4 | (a) (b) (c) | Define fractionation and discuss the fractionating columns we Give short note on azeotropic distillation with examples. Discuss the molecular distillation in detail. | vith diagram. | 06 05 05 | |
| Q.5 | (a) (b) (c) | Write a note on theory and mechanisms on drying. Give a note: Fluidized bed dryer. Define the terms EMC, CMC, drying rate, moisture content | and % LOD. | 06 05 05 | |
| Q. 6 | (a) (b) (c) | Give note on compression refrigeration cycle with diagram. Describe Wet bulb- Dry bulb method to determine humidity Give short note on Air Handling Unit. | | 06 05 05 | |
| Q.7 | (a) (b) (c) | Discuss the psychometric chart and its parameters. Discuss the refrigeration cycle. Write principle, working and merits-demerits on spray dryer | | 06 05 05 | |
