

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Pharmacy First Year Remedial Examination September 2009

Subject code: 410001

Subject Name: Pharmaceutics - I

Date: 18/09/2009

Time: 10:30 am - 01:30pm

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) Classify Tablets. Write briefly about... **06**
1. Implants 2. Controlled release Tablets
- (b) Write a Note on Wet Granulation Technique in processing of tablets. **06**
- (c) Mention the advantages and Disadvantages of Sugar Coating of Tablets. **04**
- Q.2** (a) Discuss the Formulation and Manufacturing process of Soft Gelatin Capsules. **06**
- (b) Give Differences between followings. **06**
1. Syrup IP & Syrup USP 2. Lotions & Liniments
- (c) Classify Monophasic Liquid Dosage Forms. Write briefly about Gargle & Linctus. **04**
- Q.3** (a) Describe in detail the Construction, Working, Advantages and Disadvantages of Ball Mill. **06**
- (b) Write a detailed note on **(Any Two)**.. **06**
1. Vaccines 2. Planetary mixer 3. Standards for Powders
- (c) Write a note on Sterilization by Filtration **04**
- Q.4** (a) Discuss the Construction and Working of Cyclone Separator. **06**
- (b) Write a note on **(Any One)**.. **06**
1. Continuous Hot Extraction 2. Pharmacopoeia
- (c) Write a note on GLASS as material for containers of Pharmaceutical Dosage Forms. **04**
- Q.5** (a) Write a note on Steam Distillation. **06**
- (b) Discuss Fluidized Bed Dryer in detail. **06**
- (c) Define Evaporation. Briefly discuss factors affecting rate of Evaporation. **04**
- Q.6** (a) Write a detailed note on Hardness test OR Disintegration test for Tablets. **06**
- (b) Calculate followings.. **06**
1. How many grams of solid required to prepare 480 ml of a 1 in 750 solution?
2. Calculate the quantities of 50%, 25%, 10% and 5% of Zinc oxide Ointment required to prepare 4500 gm of 20% Zinc oxide ointment
- (c) Enumerate various Tablet excipients giving Two examples of each. **04**
- Q.7** (a) Write at length about Filter leaf. **06**
- (b) Write a note on **(Any one)**.. **06**
1. Moist Heat Sterilization
2. Compression of Tablets
- (c) Discuss in brief the factors affecting the Rate of Filtration. **04**
