

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA PHARMACY YEAR- 1 • EXAMINATION – WINTER - 2023

Subject Code: 410001

Date: 11-12-2023

Subject Name: Pharmaceutics - I

Time: 02:30 PM TO 05:30 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) Define 'Filtration'. Write a note on filter media. **06**
(b) Write construction, working, advantages and disadvantages of sintered glass filter. **05**
(c) Write salient features of Indian Pharmacopoeia 2018. **05**
- Q.2** (a) Describe the standards for powders. **06**
(b) Write different factors affecting rate of evaporation. **05**
(c) Write the construction, working, advantages and disadvantages of Ball mill. **05**
- Q.3** (a) Explain sigma blade mixer in details. **06**
(b) Classify methods of sterilization and explain autoclaving in brief. **05**
(c) Explain different types of maceration process. **05**
- Q.4** (a) Differentiate between: 1. Hard gelatin and soft gelatin capsules **06**
2. Wet granulation and dry granulation.
(b) Write rotary die process for soft gelatin capsule. **05**
(c) Write "Weight Variation Test" and "Disintegration Test" for tablets. **05**
- Q.5** (a) Classify tablets. Write a note on dispensing tablets. **06**
(b) Write in detail about slugging method for preparation of tablets. **05**
(c) Explain film coating of tablets in brief. **05**
- Q.6** (a) Discuss the construction, working and application of FBD. **06**
(b) Write a detailed note on steam distillation. **05**
(c) Explain glass as container as pharmaceutical dosage forms. **05**
- Q.7** (a) Explain tablet defects with its causes and remedy. **06**
(b) Classify monophasic liquid dosage forms with examples. **05**
(c) Write a note on passive immunity. **05**
