

**GUJARAT TECHNOLOGICAL UNIVERSITY****D.Pharm-Year- I • EXAMINATION – WINTER -2023**

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**Subject Code: DP101TP**Visit: <https://pharmacyindia.co.in>**Date: 11/12/2023****Subject Name: Pharmaceutics****Time: 02:30pm to 05:30pm****Total Marks: 80****Instructions:**

1. Question -1 is compulsory to attempt.
2. Attempt any 04 questions from Question 2 to 7.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1** Answer the following questions. (Attempt Any 16) (1 mark each) **16**
- 1) Define Pharmaceutical packaging.
  - 2) Write name of any one artificial sweetener and antioxidant.
  - 3) Write various classes of powders.
  - 4) Write various classes of extraction process with any one example of each.
  - 5) Explain terms: Slurry, and Filter cake.
  - 6) Write advantages of extended release tablets.
  - 7) Why tablets are coated?
  - 8) Enlist official tests for capsules
  - 9) Define syrup with example.
  - 10) Explain role of emulsifying agents.
  - 11) Write Drug/s, Brand name and manufacturer of any one marketed Reconstitutable suspension.
  - 12) Write types of Elixirs with any one example of each.
  - 13) What is ointment? Write any one marketed brand of ointment.
  - 14) Explain term: Suppositories. Write the name of any one IP official suppository.
  - 15) What are Insufflations?
  - 16) Explain term: Sterile formulations with any one example.
  - 17) Explain with Example: Small Volume and Large Volume Parenterals.
  - 18) Write meaning of Active and Passive immunity.
  - 19) Write the aim of: Layout and design of equipment in a pharmaceutical manufacturing plant.
  - 20) What is basic difference between QA & QC?
- Q.2** (a) Write brief on: cGMP, Process Validation & Equipment Qualifications. **06**  
(b) Discuss various career opportunities after pharmacy education. **05**  
(c) Write note on Novel Drug Delivery system. **05**
- Q.3** (a) Write various types of mixing. Explain Principle, construction, working, advantages and applications of Silverson Mixer Homogenizer. **06**  
(b) Explain terms: Menstrum and Marc. Write note on Soxhlet Extraction. **05**  
(c) What is Drying? Write Principle, construction, working and applications of Lyophilizer. **05**
- Q.4** (a) Write Evaluation Tests for Tablets. **06**  
(b) Define tablets. Write details on Excipients/ Additives used for the formulation of Compressed Tablets. **05**  
(c) Define capsules. Write note on Hard gelatin capsules. **05**
- Q.5** (a) Write details on various packaging materials used in pharmaceutical industries. **06**  
(b) Write short note on various Pharmaceutical Aids. **05**  
(c) Write detail notes on various Pharmacopoeias. **05**

- Q. 6** (a) Write difference between Cream and Ointment. Explain ideal properties, advantages, formulations and storage conditions for cream **06**
- (b) Write note on Nasal Preparations. **05**
- (c) Write various types of suspension. Discuss advantages, disadvantages and formulation of Oral Suspension. **05**
- Q.7** (a) Enlist various mechanisms of Size reduction. Write Principle, construction, working, advantages and applications of Ball Mill. **06**
- (b) Write basic Quality Control Tests for sterile dosage forms. **05**
- (c) Write Excipients used in Injectables. Discuss containers and closures for parenterals. **05**

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