

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm- SEMESTER-VII • EXAMINATION – SUMMER-2017

Subject Code: 2270002**Date: 01/05/2017****Subject Name: Pharmaceutical Technology - 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) Write a note on manufacturing of aerosols by cold filling techniques. **06**
(b) Describe various types of actuators used in aerosols. **05**
(c) **Comment on the following:** **05**
1. Liquid and Gaseous propellants used in formulation of aerosols can be filled in glass containers.
2. Pharmaceutical aerosols can be formulated for their extensive use on burns.
- Q.2** (a) What are pyrogens. What is the source of pyrogens in parenterals. Write a note on pyrogen testing. **06**
(b) Write a note on air handling system to control the contaminations in the clean area. **05**
(c) **Comment on the following:** **05**
1. Liquid paraffin is oil of choice for oily injections and parenteral emulsions.
2. Cyroprotectants are to be added in freeze dried products.
- Q.3** (a) Hair conditioners and Hair shampoos have similar functions and are synonymous. Comment and Explain in detail on the basis of their formulation and ingredients used. **06**
(b) Write short note on Baby care products. **05**
(c) Explain Packaging in cosmetics products. **05**
- Q.4** (a) **Comment on the following:** **06**
1. Thixotropic vehicles leads to improvement in physical stability of suspensions.
2. Conventional suspensions can be administered through parenteral route.
(b) Give the difference between flocculated and deflocculated suspension. **05**
(c) Write a note on preservatives used in pharmaceutical formulations **05**
- Q.5** (a) Enlist various solubility enhancement methods for poorly soluble drugs. Explain any two. **06**
(b) Describe the evaluation parameters of pharmaceutical emulsions. **05**
(c) Write a note on Ophthalmic preparations **05**
- Q. 6** (a) Describe validation of mixing process in tablet manufacturing **06**
(b) Explain Documentation in Pharmaceutical Industry **05**
(c) Write a note on SOP **05**
- Q.7** (a) Write a note on Evaluation of suppositories. **06**
(b) Give the ideal requirements of the semisolid bases. **05**
(c) Write a note on Face Wash Gels. **05**