

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.

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| 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 |