

## GUJARAT TECHNOLOGICAL UNIVERSITY

**B.PHARM. - SEMESTER– VII • EXAMINATION – SUMMER-2016**

**Subject Code: 2270002**

**Date: 05/05/2016**

**Subject Name: Pharmaceutical Technology - I**

**Time: 2:30 PM to 5:30 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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|-------------|-----|---|-----------|
| <b>Q.1</b>  | (a) | Explain various types of additives which are used in parenteral preparations.   | <b>06</b> |
|             | (b) | Explain preparation, storage and distribution of Water for injection.   | <b>05</b> |
|             | (c) | Discuss the evaluation parameter of parenteral dosage form.   | <b>05</b> |
| <b>Q.2</b>  | (a) | Write a short note on Prefilled syringes.   | <b>06</b> |
|             | (b) | Explain sources of contamination and methods of prevention in sterile product.  | <b>05</b> |
|             | (c) | Discuss in brief about ocular inserts for ophthalmic use.   | <b>05</b> |
| <b>Q.3</b>  | (a) | Define Aerosols. Describe in detail of propellants use in pharmaceutical Aerosols.  | <b>06</b> |
|             | (b) | How to testing of Pharmaceutical Aerosols?  | <b>05</b> |
|             | (c) | Enlist various container uses for Aerosol. Explain various types of actuator and valve used in aerosol.                           | <b>05</b> |
| <b>Q.4</b>  | (a) | Discuss ideal properties of suppository base. Write a short note on suppository bases.  | <b>06</b> |
|             | (b) | Classify routes of drug penetration through skin. Discuss factors influencing penetration of drugs through skin.                  | <b>05</b> |
|             | (c) | Explain quality control testing of suppository.   | <b>05</b> |
| <b>Q.5</b>  | (a) | Describe role of each component in formulation for clear liquid.  | <b>06</b> |
|             | (b) | Describe the evaluation parameter of suspension.  | <b>05</b> |
|             | (c) | Define Emulsion. Write a short note on 1) Microemulsion, 2) Extract.  | <b>05</b> |
| <b>Q. 6</b> | (a) | Classify cosmetics. Write short note on toothpaste.   | <b>06</b> |
|             | (b) | Differentiate between Vanishing and cold cream.   | <b>05</b> |
|             | (c) | Write brief note of various baby care products.   | <b>05</b> |
| <b>Q.7</b>  | (a) | Enumerate different type of record maintain in Pharmaceutical company as per GMP. Write short note in batch manufacturing record. | <b>06</b> |
|             | (b) | Define SOP. Explain Standard Operating Procedure with format.   | <b>05</b> |
|             | (c) | Describe the premises facility requirements as per GMP.   | <b>05</b> |

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