

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – VII • EXAMINATION – WINTER – 2015

Subject Code: 2270002

Date: 07/12/2015

Subject Name: Pharmaceutical Technology – I

Time: 10.30 AM to 1.30 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) Describe in brief with reference to sterile production : **06**
Aseptic techniques, sources of contamination and its prevention .
- (b) Write a short note on preparation & evaluation of Water for Injection. **05**
- (c) Write a detail note on advances in parenteral packaging. **05**
- Q.2** (a) Describe in short : Parenteral nutrients, Freeze dried parenteral products **06**
- (b) Describe types of ointment bases & How it can be sterilised?. **05**
- (c) Describe quality control tests of packaging materials used in parenterals. **05**
- Q.3** (a) Write importance of following in liquid dosage form: stabilizer, preservatives & vehicle/solvent. **06**
- (b) Explain in brief Displacement value. Enumerate ideal characteristics of suppository bases. **05**
- (c) Discuss various techniques for solubility enhancement in liquid dosage forms. **05**
- Q.4** (a) Explain in brief: extracts, tincture, infusion with examples. **06**
- (b) Discuss in brief the evaluation tests for medicated ointment. **05**
- (c) Write requirement of ideal biphasic liquids. Describe evaluation tests for suspension. **05**
- Q.5** (a) Describe in detail quality control for pharmaceutical aerosols products. **06**
- (b) Classify propellants and describe liquefied gas propellants in brief. Discuss the role of propellants in an aerosol system. **05**
- (c) Draw well labeled diagram for pressurized packs. Explain different parts of it. **05**
- Q.6** (a) Describe schedule M requirement of GMP plant in pharmaceutical Industries. **06**
- (b) Define validation. Write a note on validation of steam sterilization. **05**
- (c) Enlist various types of Hair products, write preparation & evaluation of shampoo and conditioners. **05**
- Q.7** (a) Write a short note on : SOPs, Dentifrice, Paste **06**
- (b) Explain in brief for following cosmetics: manicure preparations, hygienic products, Make up preparations. **05**
- (c) Write a short note on documentation importance in maintenance. **05**
