

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph SEM-VII Examination-Nov/Dec.-2011

Subject code: 270002

Date: 22/11/2011

Subject Name: Pharmaceutical Technology – I

Time: 10.30 am-01.30 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) Define Aerosols. Give a brief account of propellants. | 06 |
| | (b) Write in details about containers used for aerosols. | 05 |
| | (c) How will you evaluate aerosols? | 05 |
| | | |
| Q.2 | (a) Differentiate creams, ointments and gels with their specific advantages.
Write a short note on suppository bases. | 06 |
| | (b) Enumerate factors influencing penetration of drugs through skin. | 05 |
| | (c) Write a short note on suppository bases. | 05 |
| | | |
| Q.3 | (a) Define emulsions. Differentiate emulsions, multiple emulsions and micro emulsions with their limitations. | 06 |
| | (b) What is significance of HLB value? Classify emulsifying agents. | 05 |
| | (c) Enumerate evaluating parameters of emulsions. | 05 |
| | | |
| Q.4 | (a) Comment | 06 |
| | I. LAL test is more preferable than rabbit test. | |
| | II. I.V. is most popular route of parenteral administration | |
| | III. Chelating agent should be used in ophthalmic dosage form. | |
| | (b) Explain in-vivo test for pyrogens. | 05 |
| | (c) Discuss evaluation parameters for injectable dosage form. | 05 |
| | | |
| Q.5 | (a) Give the different types of glass with their tests. | 06 |
| | (b) Explain preparation and storage of W.F.I. | 05 |
| | (c) Write a note on formulation of ophthalmic dosage form. | 05 |
| | | |
| Q. 6 | (a) Discuss different routes of parenteral administration. | 06 |
| | (b) Write a note on vehicles used in sterile dosage form. | 05 |
| | (c) Differentiate S.V.P and L.V.P. | 05 |

- Q.7** (a) Write short note on any two of the following. **06**
- I. Colors
 - II. Flavors
 - III. Extracts
- (b) What do you understand by stabilizers? Name three stabilizers for liquid oral dosage forms. **05**
- (c) Outline manufacturing procedure of liquid orals. **05**
