

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – VII • EXAMINATION – SUMMER • 2015

Subject Code: 270002

Date: 12-05-2015

Subject Name: Pharmaceutical Technology- I

Time: 02:30 pm - 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) Comment: <i>Microemulsions are transparent</i> . Explain various methods of manufacturing of emulsion. | 06 |
| | (b) Differentiate creaming and cracking of emulsion. Classify types of emulsifying agents with examples. | 05 |
| | (c) Describe various types of stabilizers used in liquid dosage form. | 05 |
| Q.2 | (a) Comment: <i>Vanishing cream is a water in oil type of emulsion</i> . Describe evaluation parameters of cream. | 06 |
| | (b) Describe mechanisms of drug penetration through skin. | 05 |
| | (c) Define displacement value. Describe its importance in suppository manufacturing. | 05 |
| Q.3 | (a) Comment: <i>Auqasol is a biphasic system</i> . Describe filling techniques of Aerosol. | 06 |
| | (b) Enlist evaluation tests of Aerosol. Describe performance tests for Aerosol. | 05 |
| | (c) Describe packaging component of Aerosol. | 05 |
| Q.4 | (a) Comment: <i>Large volume Parenterals are given by IM route</i> . Describe various types of IV sets. | 06 |
| | (b) Describe various types of TPN with examples. | 05 |
| | (c) Discuss preparation and storage of WFI. | 05 |
| Q.5 | (a) Comment: <i>SVP do not require preservative</i> . Explain environmental monitoring tests for aseptic area. | 06 |
| | (b) Explain how and why the LAL test is better than Rabbit test for pyrogen. | 05 |
| | (c) Classify different types of glass as per USP. Describe Water attack test for glass. | 05 |
| Q. 6 | (a) Comment: <i>Oily injections are sterilized by dry heat sterilization method</i> . Describe various parenteral depot formulations. | 06 |
| | (b) Enlist ideal properties of eye drop. Describe eye ointment in brief. | 05 |
| | (c) Describe in brief about Prefilled syringe. | 05 |
| Q.7 | (a) Comment: <i>Role of flavors and perfumes are same in liquid dosage form</i> . Describe theory of suspension. | 06 |
| | (b) Differentiate ointment and gel with suitable examples. | 05 |
| | (c) Describe factors affecting on drug absorption from suppository. | 05 |
