

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code:3163613****Date:12-07-2023****Subject Name:Formulation Technology of Liquids, Topicals and Solid****Dosage forms****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

MARKS

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|------------|---|-----------|
| Q.1 | (a) What is Emulsion? | 03 |
| | (b) Describe the defects occurring in tablet manufacturing. | 04 |
| | (c) Define Syrup and describe the methods for manufacturing of syrup. | 07 |
| Q.2 | (a) Enlist the topical dosage forms. Explain any two. | 03 |
| | (b) Write a short note on: Elixir | 04 |
| | (c) Explain the concept of suspension in details. | 07 |
| | OR | |
| | (c) What are the various tests for the identification of types of emulsion? | 07 |
| Q.3 | (a) Write a short note on: Hard & Soft Gelatin Capsules. | 03 |
| | (b) Give an account of surfactants/emulsifiers used in pharmaceutical preparations. | 04 |
| | (c) Give the detailed classification of dosage forms. | 07 |
| | OR | |
| Q.3 | (a) What are the advantages & disadvantages of solid dosage forms over the other dosage forms? | 03 |
| | (b) Explain the manufacturing of hard gelatin capsule. | 04 |
| | (c) Explain the role of dissolution of tablet using tablet dissolution apparatus. | 07 |
| Q.4 | (a) Explain the importance of ointment base in the preparation of different pharmaceutical ointments. | 03 |
| | (b) Give the types of physical instabilities in emulsion. | 04 |
| | (c) Explain the evaluation tests for tablet. | 07 |
| | OR | |
| Q.4 | (a) Explain the factors affecting sedimentation in suspension. | 03 |
| | (b) Write a short note on: Ointment Preparation. | 04 |
| | (c) Give the difference between Emulsion and Suspension. | 07 |
| Q.5 | (a) Explain the capsules evaluation tests. | 03 |
| | (b) What are medicated & non medicated syrups? | 04 |
| | (c) Explain the layout design & unit operations for solid dosage forms. | 07 |
| | OR | |
| Q.5 | (a) Give the importance of suspension stability. | 03 |
| | (b) Define: (1). Syrup, (2). Liniments, (3). Eye drops, (4). Nasal drops. | 04 |
| | (c) With a neat layout, explain tablet manufacturing facility. | 07 |
