

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER- VI • EXAMINATION –SUMMER 2021

Subject Code: BP605TP**Date: 06/08/2021****Subject Name: Industrial Pharmacy – I****Time: 02:30 PM TO 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) What is BCS classification? How does it affect development of dosage form? | 06 |
| | (b) Define Preformulation studies. Explain steps involved in Preformulation studies. | 05 |
| | (c) Describe excipients of tablets with give at least two brand name of each. | 05 |
| Q.2 | (a) Write a note on tablet tooling. | 06 |
| | (b) Discuss in brief Pharmacopoeial tests for tablet. | 05 |
| | (c) Discuss defects observed in tablet compression process. | 05 |
| Q.3 | (a) Discuss different film coating defects. | 06 |
| | (b) What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them. | 05 |
| | (c) What are the role of polyethylene oxide, Eudragit and MCC in extrusion and Pelletization? | 05 |
| Q.4 | (a) Compare hard gelatin capsules with soft gelatin capsules. | 06 |
| | (b) Write a brief note on the size of capsules. | 05 |
| | (c) Enlist products covered under cosmeceuticals. Explain shampoo in details. | 05 |
| Q.5 | (a) What are pyrogens? Explain the sources of pyrogens in parenterals. Discuss principle and method of LAL test. | 06 |
| | (b) Comment on the statement: Sterility is maintained strictly in blow fill & seal technology. | 05 |
| | (c) Describe freeze dried products, its production & application. | 05 |
| Q.6 | (a) Role and properties of propellants. Discuss. | 06 |
| | (b) How will you evaluate aerosols? | 05 |
| | (c) Draw well labeled diagram for aerosol packs. Explain the different parts of it. | 05 |
| Q.7 | (a) Discuss different methods for evaluation of packaging. | 06 |
| | (b) Explain tamper proof packaging. | 05 |
| | (c) Explain factors influencing choice of containers. | 05 |
