

**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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|-------------|--|-----------|
| <b>Q.1</b>  | (a) What is BCS classification? How does it affect development of dosage form?                                   | <b>06</b> |
|             | (b) Define Preformulation studies. Explain steps involved in Preformulation studies.                             | <b>05</b> |
|             | (c) Describe excipients of tablets with give at least two brand name of each.                                    | <b>05</b> |
| <b>Q.2</b>  | (a) Write a note on tablet tooling.  | <b>06</b> |
|             | (b) Discuss in brief Pharmacopoeial tests for tablet.  | <b>05</b> |
|             | (c) Discuss defects observed in tablet compression process.  | <b>05</b> |
| <b>Q.3</b>  | (a) Discuss different film coating defects.  | <b>06</b> |
|             | (b) What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them.   | <b>05</b> |
|             | (c) What are the role of polyethylene oxide, Eudragit and MCC in extrusion and Pelletization?                    | <b>05</b> |
| <b>Q.4</b>  | (a) Compare hard gelatin capsules with soft gelatin capsules.  | <b>06</b> |
|             | (b) Write a brief note on the size of capsules.  | <b>05</b> |
|             | (c) Enlist products covered under cosmeceuticals. Explain shampoo in details.                                    | <b>05</b> |
| <b>Q.5</b>  | (a) What are pyrogens? Explain the sources of pyrogens in parenterals. Discuss principle and method of LAL test. | <b>06</b> |
|             | (b) Comment on the statement: Sterility is maintained strictly in blow fill & seal technology.                   | <b>05</b> |
|             | (c) Describe freeze dried products, its production & application.  | <b>05</b> |
| <b>Q. 6</b> | (a) Role and properties of propellants. Discuss.   | <b>06</b> |
|             | (b) How will you evaluate aerosols?  | <b>05</b> |
|             | (c) Draw well labeled diagram for aerosol packs. Explain the different parts of it.                              | <b>05</b> |
| <b>Q.7</b>  | (a) Discuss different methods for evaluation of packaging.   | <b>06</b> |
|             | (b) Explain tamper proof packaging.  | <b>05</b> |
|             | (c) Explain factors influencing choice of containers.  | <b>05</b> |

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