

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. – SEMESTER- VI • EXAMINATION – WINTER -2021**

**Subject Code: BP605TP****Date:03/12/2021****Subject Name: INDUSTRIAL PHARMACY-I****Time: 2:30 PM to 5:30 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) Define Preformulation studies. Write a note on physicochemical properties related to solubility study in preformulation.                                     | <b>06</b> |
|             | (b) Discuss in brief the Parenteral suspension.  | <b>05</b> |
|             | (c) Describe in detail quality control for pharmaceutical aerosol products.  | <b>05</b> |
| <b>Q.2</b>  | (a) What are sunscreen preparations? Discuss their formulation and evaluation in brief.  | <b>06</b> |
|             | (b) Explain preparation and storage of W.F.I.  | <b>05</b> |
|             | (c) What are pyrogens? Explain the sources of pyrogens in parenterals. Explain the principle of LAL test for pyrogen testing.                                    | <b>05</b> |
| <b>Q.3</b>  | (a) Discuss in brief Pharmacopoeial tests for tablet.  | <b>06</b> |
|             | (b) Give the reasons for enteric coating of tablet. Enlist enteric and non enteric film former materials. Write note on plasticizer.                             | <b>05</b> |
|             | (c) Discuss defects observed in tablet compression process.  | <b>05</b> |
| <b>Q.4</b>  | (a) Classify cosmetics. Write short note on formulation, manufacturing and evaluation of shampoos  | <b>06</b> |
|             | (b) What is Pelletization? Discuss factors affecting pellet properties.  | <b>05</b> |
|             | (c) Define: Pharmaceutical aerosols. Explain the role of propellants in an aerosol system. Classify propellants and describe liquefied gas propellants in brief. | <b>05</b> |
| <b>Q.5</b>  | (a) Explain quality control tests of gelatin.  | <b>06</b> |
|             | (b) Discuss in brief the additives used in liquid dosage forms   | <b>05</b> |
|             | (c) Comment: Sedimentation rate of flocculated suspensions is faster than deflocculated suspensions. Differentiate flocculated and deflocculated suspension.     | <b>05</b> |
| <b>Q. 6</b> | (a) Discuss remedies to overcome degradation due to hydrolysis and oxidation in pharmaceutical dosage form.  | <b>06</b> |
|             | (b) Describe the Rotary die process for manufacturing of soft gelatin capsule.   | <b>05</b> |
|             | (c) Explain size of capsules and write a note on problem and remedies in capsules.   | <b>05</b> |
| <b>Q.7</b>  | (a) What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them  | <b>06</b> |
|             | (b) Discuss the powder glass test and water attack test for packaging in Pharmaceuticals.  | <b>05</b> |
|             | (c) Write in brief note on formulation of ophthalmic dosage form.  | <b>05</b> |

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