

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2020**

**Subject Code: BP605TP****Date: 02-11-2020****Subject Name: Industrial Pharmacy – I****Time: 10:30 AM TO 1:30 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. Explain steps involved in Preformulation studies.   | <b>06</b> |
|             | (b) Describe in detail quality control for pharmaceutical aerosol products.  | <b>05</b> |
|             | (c) Write a detail note on: 1. Parenteral suspension 2. Cryoprotectants  | <b>05</b> |
| <b>Q.2</b>  | (a) What are pyrogens? Explain the sources of pyrogens in parenterals. Discuss principle and method of LAL test.   | <b>06</b> |
|             | (b) What are sunscreen preparations? Discuss their formulation and evaluation in brief.  | <b>05</b> |
|             | (c) Write a brief note on stability aspects of packing.  | <b>05</b> |
| <b>Q.3</b>  | (a) Comment: Sedimentation rate of flocculated suspensions is faster than deflocculated suspensions. Differentiate flocculated and deflocculated suspension. | <b>06</b> |
|             | (b) Discuss defects observed in tablet compression process.  | <b>05</b> |
|             | (c) Explain quality control tests of gelatin.  | <b>05</b> |
| <b>Q.4</b>  | (a) Enlist various container uses for Aerosol. Explain various types of actuator and valve used in aerosol.  | <b>06</b> |
|             | (b) Discuss in brief Pharmacopoeial tests for tablet.  | <b>05</b> |
|             | (c) Discuss remedies to overcome degradation due to hydrolysis and oxidation in pharmaceutical dosage form.  | <b>05</b> |
| <b>Q.5</b>  | (a) What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them  | <b>06</b> |
|             | (b) Explain BCS classification of Drugs and its significance in Preformulation studies with suitable examples.   | <b>05</b> |
|             | (c) Write in brief note on formulation of ophthalmic dosage form.  | <b>05</b> |
| <b>Q. 6</b> | (a) Classify cosmetics. Write short note on formulation, manufacturing and evaluation of shampoos  | <b>06</b> |
|             | (b) Discuss different film coating defects.  | <b>05</b> |
|             | (c) Write a note on excipients and additives used in the capsule formulation   | <b>05</b> |
| <b>Q.7</b>  | (a) Describe different types of glass as a packaging material for parenteral. Explain water attack test.   | <b>06</b> |
|             | (b) What is Pelletization? Discuss any one pelletization technique.  | <b>05</b> |
|             | (c) Write a detailed note on storage and purity of W.F.I.  | <b>05</b> |

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