

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

Subject Code:280002**Date: 04/08/2021****Subject Name: Pharmaceutical Technology-II****Time:10:30AM TO 01:30PM****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) | Define Tablets. Give a brief account of processing problems and its remedies for tablets | 06 |
| | (b) | Draw the compression cycle of a rotary tablet press with explanation. | 05 |
| | (c) | Enlists various evaluation parameters of tablet. Explain weight variation and content uniformity as per USP. | 05 |
| Q.2 | (a) | Write on any two: 1) binders 2) disintegrants 3) lubricants | 06 |
| | (b) | Enumerate the components used in film coating solution with their use and Compare sugar coating and film coating process. | 05 |
| | (c) | Write down the requirement of coating and application of it. | 05 |
| Q.3 | (a) | Define Capsules. Mention the various sizes. Write the quality control tests on Hard Gelatin Capsules. | 06 |
| | (b) | Discuss in detail about rotary die process of soft gelatin capsules with diagram. | 05 |
| | (c) | Enlist various method of microencapsulation and explain any one in detail. | 05 |
| Q.4 | (a) | Describe soft gelatin capsule manufacturing process. | 06 |
| | (b) | Classify type of packing materials. Discuss criteria for selection of pharmaceutical packaging material. | 05 |
| | (c) | Explain the water attack and powdered glass test for packaging materials. | 05 |
| Q.5 | (a) | Explain the sunscreen preparation with SPF specification. | 06 |
| | (b) | Explain in detail about shampoo and conditioners. | 05 |
| | (c) | Explain the formulation aspect of baby care products. | 05 |
| Q. 6 | (a) | Describe significance of GMP in pharmaceutical industry. Discuss documentation requirements as per GMP | 06 |
| | (b) | Write down the standard operating procedure (SOPs) | 05 |
| | (c) | Describe significance of GMP in pharmaceutical industry & Discuss personnel requirements as per GMP | 05 |
| Q.7 | (a) | What is validation? Discuss validation of wet granulation and compression process. | 06 |
| | (b) | Write down the validation of autoclave. | 05 |
| | (c) | What is the importance of cleaning validation. | 05 |
