

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER -2019

Subject Code: 280002

Date: 08-05-2019

Subject Name: Pharmaceutical Technology- II

Time: 10:30 AM TO 01:30 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) Define pharmaceutical package. Enlist the criteria for selection of package type and packaging material. Classify the packaging materials. | 06 |
| | (b) Give the evaluation test for closure as per IP. Write note on temper evident packaging. | 05 |
| | (c) Discuss regulatory requirements in pharmaceutical packaging. | 05 |
| Q.2 | (a) Differentiate between direct compression and wet granulation methods for tablet. | 06 |
| | (b) Define tablets. Give a brief account of processing problems and its remedies for tablets. | 05 |
| | (c) Enumerate specialized coating processes. | 05 |
| Q.3 | (a) Give a brief account on Cosmaceuticals. | 06 |
| | (b) Describe formulation aspects of baby care products. | 05 |
| | (c) Explain the popular cosmetic which contains Nitrocellulose as film former. | 05 |
| Q.4 | (a) Enlist methodologies of microencapsulation and discuss in detail coacervation – phase separation method. | 06 |
| | (b) Discuss quality control parameters of soft gelatin capsules. | 05 |
| | (c) Define SOP. Describe content and format of SOP. | 05 |
| Q.5 | (a) Describe filling operation for hard gelatin capsules. | 06 |
| | (b) Briefly discuss the Good Manufacturing Practice for Pharmaceuticals. | 05 |
| | (c) Give the advantages of pharmaceutical validation. How will you perform validation of steam sterilizer? | 05 |
| Q. 6 | (a) Comment:
(i) Plastic containers are more preferable than glass containers in Large Volume Parenterals.
(ii) Mannitol is used as diluent in chewable tablet.
(iii) Blooming and covering agents is added in face powder. | 06 |
| | (b) Explain and classification of tablet tooling. | 05 |
| | (c) Justify: Documentation is an essential part in GMP. | 05 |
| Q.7 | (a) Explain the formulation and evaluation test on buccal tablets. | 06 |
| | (b) Describe biodegradable and non-biodegradable polymers used in microcapsules. | 05 |
| | (c) Write a note on blister and strip package. | 05 |
