

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER- VII • EXAMINATION – WINTER -2020

Subject Code:2270002**Date: 04/01/2021****Subject Name: Pharmaceutical Technology- I****Time: 10:30AM To 12:30PM****Total Marks: 54****Instructions:**

1. Attempt any **THREE** questions from Q-1 to Q-6.
2. **Q.7** is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

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|-------------|-----|--|-----------|
| Q.1 | (a) | Describe preparation methods for water for injection and list quality control tests. | 06 |
| | (b) | Describe various sources of contamination. Discuss its preventive measures. | 05 |
| | (c) | Write a short note on lyophilized products. | 05 |
| Q.2 | (a) | Discuss aseptic techniques. Draw efficient layout of parenteral production unit. | 06 |
| | (b) | Describe various containers & closures used in parenteral packaging. | 05 |
| | (c) | Write a short note on parenteral nutrients. | 05 |
| Q.3 | (a) | Enlist methods for improvement solubility, Describe any two. | 06 |
| | (b) | Write a brief note: Suspending agent, emulsifying agent. | 05 |
| | (c) | Explain in brief : i) extracts ii) tincture iii) infusion iv) Gels | 05 |
| Q.4 | (a) | Describe different aerosol formulations. Write pharmaceutical applications of aerosols. | 06 |
| | (b) | Discuss factors influencing drug penetration from semisolid bases through skin with mechanism. | 05 |
| | (c) | What is propellant? Describe various parts of aerosols pack. | 05 |
| Q.5 | (a) | Enlist various suppositories bases describe individuals characteristics. | 06 |
| | (b) | Discuss formulation composition of Shampoo and conditioners | 05 |
| | (c) | Explain Validation. Describe validation of Autoclave. | 05 |
| Q. 6 | (a) | Write a note on baby care products, hygienic products | 06 |
| | (b) | Discuss various methods for aerosols filling. | 05 |
| | (c) | Write composition with its characteristics of skin -Sunscreen, moisturizers. | 05 |
| Q.7 | (a) | Give Brief HVAC requirement as per schedule M for manufacturing premises. | 06 |
| | | OR | |
| | (a) | Discuss Labeling conditions as per GMP. | 06 |
| | | OR | |
| | (a) | Write in brief Manufacturing records for pharmaceuticals. | 06 |
