

GUJARAT TECHNOLOGICAL UNIVERSITY
M.PHARM - SEMESTER-2 EXAMINATION – SUMMER-2019

Subject Code: MRA202T**Date: 29/05/2019****Subject Name: Regulatory Aspects of Herbal & Biologics****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) | Write briefly about Market Authorization Application Data Requirements for Similar Biologics as per CDSCO. | 06 |
| | (b) | Write a note on Preclinical studies as per CDSCO. | 05 |
| | (c) | Write a note on Assessment of clinical safety and efficacy in the preparation of EU herbal monographs for well-established and traditional herbal medicinal products. | 05 |
| Q.2 | (a) | Discuss Guidelines for IND application for Biosimilars as per USA. | 06 |
| | (b) | Differentiate Biosimilars products and Biologics products. | 05 |
| | (c) | Write a note on Pre-market approval process for Biologics in USA. | 05 |
| Q.3 | (a) | Discuss about general requirements for 510(k) application for Biologics as per USA. | 06 |
| | (b) | Write a note on Content and requirements of Plasma master file as per EU. | 05 |
| | (c) | Describe labelling and packing requirements for Blood products in EU. | 05 |
| Q.4 | (a) | Describe various steps involved in obtaining an EU marketing authorisation. | 06 |
| | (b) | Discuss about control, monitoring and diagnosis of TSE as per EU. | 05 |
| | (c) | Discuss about pre-clinical development of Biologics as per EU. | 05 |
| Q.5 | (a) | Write briefly about guidelines on GDP for Biological products as per CDSCO. | 06 |
| | (b) | Discuss general format and content for post-authorisation safety studies as per EMA. | 05 |
| | (c) | Discuss Pharmacovigilance requirements for biological products as per CDSCO. | 05 |
| Q. 6 | (a) | Discuss Schedule T for GMP requirements of herbal medicine in INDIA. | 06 |
| | (b) | Discuss the role and responsibilities of IHN. | 05 |
| | (c) | Discuss Good Agriculture and Collection Practices guideline as per AHPA. | 05 |
| Q.7 | (a) | Enlist documents required for application of Herbal drug products in India. | 06 |
| | (b) | Discuss standardization and quality evaluation of herbal products. | 05 |
| | (c) | Discuss about preclinical data requirements for similar biologics. | 05 |
