

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-6 • EXAMINATION – SUMMER -2020

Subject Code: BP603TP**Date: 28-10-2020****Subject Name: HERBAL DRUG TECHNOLOGY****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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| Q.1 | (a) | Define Herbal Medicine. Mention in detail about various sources of Herbs. | 06 |
| | (b) | Write about Good Agricultural Practices (GAP) in cultivation of medicinal plants briefly. | 05 |
| | (c) | What is Pest? Give various types of Pesticides. Explain in detail about Bio-insecticides. | 05 |
| Q.2 | (a) | Explain Alternative system of Medicine. Write in detail about Tridosha and PanchTatva theory involved in Ayurveda system of medicine. | 06 |
| | (b) | Define Aristhas and Asawas. Mention general evaluation methods for Aristhas and Asawas. | 05 |
| | (c) | Define Nutraceuticals. Mention benefits of Nutraceuticals in various CVS disorders. | 05 |
| Q.3 | (a) | Mention the role of Fenugreek herb and Spirulina as Health Food. | 06 |
| | (b) | Write about Herbal-Drug interaction. Explain in detail one example each of Herb-drug and herb-food interaction. | 05 |
| | (c) | Write in detail about role of Black Pepper as Bioavailability Enhancer. | 05 |
| Q.4 | (a) | Compare between conventional herbal formulations and novel herbal dosage forms. Mention in detail about Phytosomes. | 06 |
| | (b) | Explain in detail about ICH guidelines for the evaluation of herbal drugs and their stability testing. | 05 |
| | (c) | Define any two: (i) Patent (ii) Biopiracy (iii) IPR | 05 |
| Q.5 | (a) | Explain in detail about patenting aspects of Traditional Knowledge giving example of Neem. | 06 |
| | (b) | Explain term AST DTAB and ASU DCC. Explain in detail about Schedule Z of Drugs and Cosmetics Act for ASU drugs. | 05 |
| | (c) | Write about present scope and future prospects of Herbal Drug Industry. | 05 |
| Q.6 | (a) | Give a brief account of Plant based Industries and various institutions involved in work on medicinal and aromatic plants in India. | 06 |
| | (b) | Write about Components and Objectives of Good Manufacturing Practices (GMP) for Ayurvedic medicines. | 05 |
| | (c) | Mention about Infrastructural requirements for manufacturing unit as per Schedule-T. | 05 |
| Q.7 | (a) | How the documentation and records are maintained and Standard Operating Procedures are followed for Herbal drug industry | 06 |
| | (b) | Explain about Farmer's right and Breeder's right. | 05 |
| | (c) | Write a short note on Herbal excipients. | 05 |