

Seat No.: _____

Enrolment No. _____

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.

- 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**