

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M. Pharm. – SEMESTER – II • EXAMINATION – WINTER • 2015**

**Subject Code: 2920105**

**Date: 07-12-2015**

**Subject Name: Advanced Analytical Pharmacognosy**

**Time: 10:30 am - 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.**

- Q.1 (a) Describe WHO guidelines for standardization of the herbal medicines. (6)  
(b) Define herbal drugs as per WHO. Define Ayurvedic drugs, traditional drugs and crude drugs. (5)  
(c) WHO says, “Ayurvedic Drugs can be called as herbal drugs.” Give comments and discussion on this statement. (5)
- Q.2 (a) What is reverse pharmacology? Discuss importance of reverse pharmacology. (6)  
(b) Discuss the requirements to be full filled for acceptance of a new herbal preparation for use by FDA. (5)  
(c) Discuss the requirements to manufacture and market any Ayurvedic formulation in India. (5)
- Q.3 (a) Describe in brief the procedure to study stability of the natural products. (6)  
(b) Discuss about the shelf life of Churna, Vatika, Kwatha, Asawa & Bhasma. (5)  
(c) What do you mean by Red listed plants? How many plants are Red listed in India? Why should we prefer to use cultivated plants for the Ayurvedic or Herbal preparations? (5)
- Q.4 (a) What is marine Pharmacognosy? Discuss scope of marine Pharmacognosy. (6)  
(b) Describe novel anticancer, antiviral and antidiabetic compounds obtained from marine source. (5)  
(c) Discuss limitation of marine Pharmacognosy. (5)
- Q.5 (a) What is Ayurveda? Discuss principles of Ayurveda in detail? (6)  
(b) Name different types of Ayurvedic formulations and discuss their importance. (5)  
(c) Describe the method to standardize an Ayurvedic churna preparation containing many plants. (5)
- Q.6 (a) Describe standardization of Arista as per Ayurvedic and Herbal Pharmacopoeia. (6)  
(b) What do you mean by standardized Ayurvedic product? Describe the method to be followed to prepare standardized Ayurvedic product. How far it is possible to standardize the Ayurvedic finished product? (5)  
(c) To whom Bhasmas are recommended for use? Why people are afraid of using Bhasmas? Describe old and new concepts to standardize Bhasmas. (5)
- Q.7 (a) Are all Ayurvedic plants innoxious/non toxic? In which conditions innoxious plants become toxic? (6)  
(b) Describe method of Shodhana (detoxification) for Nuxvomica, Aconite & Guggal in Ayurveda. (5)  
(c) Discuss limitations of Ayurvedic Pharmacopoeia of India for standardization of Ayurvedic plants and their formulations. (5)

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