

Total No. of Questions : 6]

SEAT No. :

**P2007**

**[5145]-705**

[Total No. of Pages : 2

**Final Year B.Pharmacy**  
**4.7.5 NATURAL DRUG TECHNOLOGY**  
**(2013 Pattern) (Semester - VII) (Theory)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Answer to the two sections should be written in separate answer books.*
- 3) *Figures to the right indicate full marks.*

**SECTION - I**

**Q1) Solve any ONE:**

**[10]**

- a) What do you mean by Arista and Bhasma? Give methods of preparation and evaluation of Arista and Bhasma.
- b) Discuss standardization of herbal drugs with special emphasis on current approaches, difficulties and limitations in standardization.

**Q2) Solve Any FIVE:**

**[15]**

- a) Give significance of authentication of plant material.
- b) Give factors influencing the level of plant metabolites.
- c) Write a note on WHO guidelines to good storage practices for pharmaceuticals.
- d) Discuss the methods to control infestation.
- e) Write a note on Vatika.
- f) Discuss the deterioration of crud drugs due to
  - i) Moisture
  - ii) Temperature
- g) Write a short note on Churna.

*P.T.O.*

**Q3) Solve any TWO:** **[10]**

- a) Discuss WHO guidelines on Good Agricultural and Collection Practices (GACP)
- b) Explain in brief diagnosis and treatment in Ayurveda.
- c) Give principle and applications of DNA fingerprinting in plants.
- d) Write a note on Siddha system of medicine.

### **SECTION - II**

**Q4) Solve any ONE:** **[10]**

- a) What do you mean by oral bioavailability enhancers? Discuss in details the natural products as oral bioavailability enhancers.
- b) Classify herbal dietary supplements. Discuss in detail Garlic, Spirulina and Turmeric as herbal dietary supplement.

**Q5) Solve Any FIVE:** **[15]**

- a) Give the Pharmacognostic account of Pyrethrum.
- b) Give general method of preparation of herbal shampoo.
- c) Write a note on evaluation of skin cosmetics.
- d) Write a note on Hyaluronic acid in wound management.
- e) Explain probiotics and prebiotics with examples.
- f) Comment on pesticides and environment.
- g) Write a note on Ginko biloba.

**Q6) Solve any Two:** **[10]**

- a) Discuss in detail novel drug delivery system for herbal drugs.
- b) What are pest? Describe in detail different methods of pest control.
- c) Discuss in detail the herbs used in skin and hair care cosmetics.
- d) Write a note on biofuels.

