

Total No. of Questions : 6]

SEAT No. :

[Total No. of Pages : 2

**P2921**

**[5049] - 705**

**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) Explain the theory and basic concept of Homeopathy. Add a note on diagnosis and treatment in Homeopathy.

**Q2) Solve Any Five :** **[15]**

- a) Give difficulties and limitations of herbal drug standardization.
- b) Give need and significance of authentication of plant material.
- c) Discuss in short the currently practiced approaches in cultivation of herbal drugs.
- d) Write a note on WHO guidelines to good storage practices for pharmaceuticals.
- e) Write a note on Asava.
- f) Write a note on diagnosis in Ayurveda.
- g) Comment on quality assurance in cultivation and harvesting technology.

**P.T.O.**

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

- a) Discuss the steps in development of crude drug monograph.
- b) Explain different approaches used in authentication of herbal drugs.
- c) Discuss WHO guidelines on Good Agricultural and Collection Practices (GACP).
- d) Comment on quality of crude drugs is affected by storage conditions.

**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) Give an account of herbs used in skin and hair care cosmetics.

**Q5) Solve any Five :** **[15]**

- a) Give the Pharmacognostic account of Rotenone.
- b) Write a note on bioethanol.
- c) Write a note on evaluation of hair care cosmetics.
- d) Comment on pesticides and environment.
- e) Define and classify herbal dietary supplements.
- f) Give biological source, chemical constituents and uses of Turmeric and Ginko biloba.
- g) Write a note on spirulina.

**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 inorganic mineral supplements.
- d) Write a note on Skin permeation enhancers.

