

CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN  
SEMESTER END EXAMINATION, APRIL 2019

Semester: IV B.Sc. Subject and Sub Code: Botany BOS102 (Herbal Technology)

Total marks: 60

Date: 27/04/2019

Duration: 2 Hours

*Instructions: 1. All questions are compulsory; however internal choice is available.*

*2. Figures to the right indicate full marks.*

*3. Draw appropriate diagrams wherever necessary.*

**Q. I.** Answer **any five** of the following:

(2 x 5 = 10)

1. State the advantages of herbal formulations over synthetic cosmetics.
2. Comment on Aromatherapy.
3. Explain the term Nutraceuticals.
4. Give the common name & botanical name of any 2 herbs used for culinary purpose.
5. What is *in-situ* conservation? List the sites for *in-situ* conservation of medicinal plants.
6. Comment on a Field Gene Bank.
7. Give the features of a Herbal Farm.

**Q. II.** Answer **any five** of the following:

(2 x 5 = 10)

1. Name the different forms of Ayurvedic medicine.
2. Give the biological source and 3 medicinal uses of *Aloe vera*.
3. Mention the organoleptic characters of *Urginia indica*.
4. Give the biological source and any 3 chemical constituents of *Mentha piperita*.
5. How is infusion of crude herbal extracts prepared?
6. Define 'deliberate adulteration'.
7. Give the test for detection of volatile oils in herbal drugs.

**Q. III. A.** Give an account of herbal plants used in cosmetic formulations for skin care. (5)

OR

A. Give an account of herbal plants used in cosmetic formulations for hair care. (5)

B. Write a short note on traditional systems of medicine. (5)

**Q. IV. A.** Elaborate on plant tissue culture as a source of phytopharmaceuticals. (5)

OR

A. Elaborate on the role of Central Institute of Medicinal and Aromatic Plants (CIMAP) in conservation of medicinal plants. (5)

B. Describe the collection and drying process of crude drugs. (5)

**Q. V. A.** Describe the plant morphology and state the chemical constituents of *Coriandrum sativum*. (5)

OR

A. State the organoleptic characters, biological source and medicinal uses of *Zingiber officinale*. (5)

B. Explain the types of adulterants in herbal drugs. (5)

**Q. VI. A.** Discuss in detail the various methods of microscopic drug evaluation. (5)

OR

A. Explain the preparation of herbal extracts by decoction and maceration methods. (5)

B. Write the biological source, chemical constituents and medicinal uses of *Rauwolfia serpentina*. (5)

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