

CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN
NUVEM - GOA
SEMESTER END EXAMINATION, APRIL-MAY 2023

Semester: IV of B.Sc. BOTANY

Class & Div: S.Y.B.Sc. (A & B)

Course Title & Code: **Herbal Technology (BOS 102)**

Maximum Marks: 60 Date: 03/05/2023 Duration: 2 Hours Total No. of Pages: 02

Instructions: 1. All questions are **compulsory**; however, internal choice is available.
2. Figures to the **right** indicate **maximum** marks assigned to the question.
3. Draw appropriate labelled diagrams **wherever** necessary.

Q. I. Answer any five of the following: (2 marks x 5 = 10)

- i. Name any two medicinal plants used in the Siddha system of medicine.
- ii. What care should be taken while collecting roots and rhizomes for the preparation of herbal medicines?
- iii. List any two medicinal uses of *Rauwolfia serpentina*.
- iv. Differentiate between deliberate and in-deliberate adulteration.
- v. What is meant by super critical extraction of a herbal extract?
- vi. State the advantages of herbal formulations over synthetic cosmetics.
- vii. Differentiate between *in-situ* and *ex-situ* conservation.

Q. II. Answer any five of the following: (2 marks x 5 = 10)

- a. List any two challenges faced in the marketing of crude drugs.
- b. Name the biological source and any two chemical constituents of *Urginea indica*.
- c. State the organoleptic characters of *Coriandrum sativum*.
- d. Describe any one method to detect volatile oils in natural drugs.
- e. Differentiate between water distillation and direct steam distillation.
- f. Explain the term nutraceuticals.
- g. What are medicinal plants conservation parks?

Q. III. A. Summarize the packaging methods of crude drugs. (5)

OR

A. Discuss the use of any two medicinal plants in the Ayurveda system of medicine. (5)

B. Discuss the importance of medicinal plants. (5)

Q. IV. A. Enumerate any four chemical constituents and three medicinal uses of *Curcuma longa*. (5)

OR

A. Describe the plant morphology of *Ocimum sanctum*. (5)

B. Give an account of the organoleptic characters and the medicinal uses of *Andrographis paniculata*. (5)

Q. V. A. Explain the method of infusion for herbal drug preparation. (5)

OR

A. Summarize any two tests to detect flavonoids in natural drugs. (5)

B. Give an account of microscopic evaluation for quality control of herbal drugs. (5)

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

OR

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

B. Elaborate on plant tissue culture as a source of phytopharmaceuticals. (5)
