

**2024/TDC (CBCS)/EVEN/SEM/
BOTSEC-401T/034**

TDC (CBCS) Even Semester Exam., 2024

BOTANY

(4th Semester)

Course No. : BOTSEC-401T

(Herbal Technology)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—I

**1. Answer any three questions from the
following : $1 \times 3 = 3$**

(a) What are herbal medicines?

(b) What is gargle?

(c) Write the full form of CCRS.

(d) Name the propagating part of ginger
plant.

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(Turn Over)



(2)

2. Answer any one question from the following : 2
- (a) What is micropropagation?
- (b) Write two advantages of vacuum drying.
3. Answer any one question from the following : 5
- (a) Give a detailed account of the role of medicinal plants in Siddha system of medicine.
- (b) Describe the different storage methods of medicinal plant materials.

UNIT—II

4. Answer any three questions from the following : 1×3=3
- (a) Write the scientific name of a herbaceous medicinal plant.
- (b) What is the scientific name of Indian gooseberry?
- (c) Write the medicinally useful parts of Ashoka plant.
- (d) Write one medicinal use of fenugreek.

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(3)

5. Answer any one question from the following : 2
- (a) Write the systematic position of Ashoka plant.
- (b) Give a brief note on therapeutic uses of Ashoka.
6. Answer any one question from the following : 5
- (a) Give an account of the medicinal uses of Tulsi.
- (b) Give an account of the home remedies with fenugreek seeds.

UNIT—III

7. Answer any three questions from the following : 1×3=3
- (a) Name one test for carbohydrates.
- (b) Name one terpenoid.
- (c) What are antioxidants?
- (d) What is the common name of *Centella asiatica*?

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(4)

8. Answer any *one* question from the following : 2
- (a) Name two alkaloids extracted from *Catharanthus roseus*.
- (b) Write the scientific name and family of 'Ashwagandha'.
9. Answer any *one* question from the following : 5
- (a) Describe the testing methods of active constituents of medicinal plants.
- (b) Write the scientific name and processes of utilization of memory booster plant.

UNIT—IV

10. Answer any *three* questions from the following : 1×3=3
- (a) Define adulteration.
- (b) Mention two unintentional reasons of drug adulteration.
- (c) Name any two physical features which are used in the physical evaluation of drug.
- (d) Name a test for alkaloid.

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(5)

11. Answer any *one* question from the following : 2
- (a) Describe briefly the process of phytochemical screening test for flavonoids.
- (b) What is palisade ratio?
12. Answer any *one* question from the following : 5
- (a) Describe the organoleptic evaluation of crude drugs.
- (b) Describe briefly how intentional adulteration of drugs take place.

UNIT—V

13. Answer any *three* questions from the following : 1×3=3
- (a) Write the botanical name of Tulsi.
- (b) What is micropropagation?
- (c) What are gene banks?
- (d) Name one biosphere reserve.

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(Turn Over)

14. Answer any one question from the following : 2

(a) Write the importance of herbal foods.

(b) Write a note on cryopreservation.

15. Answer any one question from the following : 5

(a) Describe the procedure for the micro-propagation of 'Ashwagandha'.

(b) Describe the procedure for the micro-propagation of Neem.
