

**2023/TDC(CBCS)/ODD/SEM/
BOTSEC-501T (A/B)/147**

TDC (CBCS) Odd Semester Exam., 2023

BOTANY

(5th Semester)

Course No. : BOTSEC-501T

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

Candidates have to answer either from
Option—A (Ethnobotany) or Option—B (Medicinal
Botany)

OPTION—A

Course No. : BOTSEC-501T (A)

(Ethnobotany)

SECTION—A

**Answer fifteen questions, selecting any three from
each Unit : 1×15=15**

Unit—I

1. What is ethnotoxicology?

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2. What is the 'abstract' aspect of Ethnobotany?
3. Name two dominant tribes of Arunachal Pradesh.
4. What are *Tadi* and *Handia*?

Unit—II

5. Define herbarium.
6. Name one ancient literature of India, which is the source of Ethnobotanical study.
7. Name one plant motifs sculptured on Indian temples.
8. What is the scientific name of the sacred plant *Kadamba*?

Unit—III

9. Write the leaf morphology of *Neem* tree.
10. Name an Ethnobotanical plant of the family *Zygophyllaceae*.
11. What is the habitat of *Pongamia pinnata*?
12. Write about the leaf morphology of *Gloriosa superba*.

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Unit—IV

13. What is the full form of JFM?
14. Write the scientific name of an endangered medicinal plant and North-East India.
15. Name any two alkaloids present in '*Sarpagandha*' (Indian snakeroot).
16. What is Red Data Book?

Unit—V

17. Write the full form of CBD.
18. Define IPR.
19. What is copyright?
20. What is ITK?

SECTION—B

Answer *five* questions, selecting *one* from each

Unit :

2×5=10

Unit—I

21. Write the scientific name and family of one wild edible food plant of Assam.
22. Write a brief note about the *Bhils*.

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(Turn Over)

(4)

Unit—II

23. What do you mean by primary information and secondary information?
24. Name the archaeological remains, which are of Ethnobotanical significance.

Unit—III

25. Write a note on the Ethnobotanical uses of *Gloriosa superba*.
26. Write the Ethnomedicinal uses of *Cassia auriculata*.

Unit—IV

27. What are the three types of sacred groves?
28. Write a note on Participatory Forest Management.

Unit—V

29. What are the effects of biopiracy?
30. What is the concept of Access and Benefit sharing?

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SECTION—C

Answer *five* questions, selecting *one* from each Unit : 5×5=25

Unit—I

31. Give an account of the scope and objectives of Ethnobotany.
32. "Ethnobotany is an interdisciplinary science." Discuss it.

Unit—II

33. What are the objectives of Ethnobotanical field work? Prepare a questionnaire for collecting Ethnobotanical Data. 3+2=5
34. Describe a method to standardized the collected Ethnobotanical knowledge for its reliability.

Unit—III

35. Give an account of the medicinal uses of *Indigofera tinctoria*.
36. Write the medicinal uses of *Ocimum tenuiflorum* (*O. Sanctum*).

(6)

Unit—IV

37. Write the scientific name and family of 'Ashwagandha'. Give an account of the uses of 'Ashwagandha' in modern medicine. 1+1+3=5
38. Give an account of the uses of 'Sarpagandha' in modern medicine. Write two commercial brand names of drugs prepared from 'Sarpagandha'. 4+1=5

Unit—V

39. Describe how Ethnobotany acts as a tool to protect interest of ethnic communities.
40. Describe different ways of protection of traditional knowledge.

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OPTION—B

Course No. : BOTSEC-501T (B)

(Medicinal Botany)

SECTION—A

Answer fifteen questions, selecting any three from each Unit : 1×15=15

Unit—I

1. How many medicinal plants had been mentioned in *Atharvaveda*?
2. What are the *Trigunas*, mentioned in *Ayurveda*?
3. What is *Umoor-e-tabiya*?
4. What is the meaning of *rasa* in *Ayurveda*?

Unit—II

5. Write the scientific name of an endangered medicinal plant of North-East India.
6. Name one biosphere reserve of Assam.
7. What is the full form of IUCN?
8. What is *in situ* conservation?

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Unit—III

9. What is scion?
10. Define nursery.
11. What is the use of seed bed?
12. Name any two tools or implements used in nursery.

Unit—IV

13. Who is called the father of Ethnobotany?
14. Name two ethnic communities of Arunachal Pradesh.
15. What is Palaeo-ethnobotany?
16. What is the concrete aspect of Ethnobotany?

Unit—V

17. What are alkaloids?
18. Write the scientific name of a herb used to treat jaundice.
19. Name a plant which is used to treat infertility.
20. Write the scientific name of Tulsi.

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SECTION—B

Answer five questions, selecting one from each
Unit : 2×5=10

Unit—I

21. What are *Pancha Bhutas*?
22. What are the six factors essential for the maintenance of good health as per the Unani system of medicine?

Unit—II

23. Name all the Red List Categories.
24. What is Red Data Book?

Unit—III

25. Name five vegetative propagating part of plants.
26. Write the significance of vegetative propagation.

Unit—IV

27. Write a brief note on *Bhils*.
28. Mention the significance of Ethnobotanical study.

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(10)

Unit—V

29. Write the medicinal uses of *Costus igneous*.
30. Write the scientific names and family of Neem.

SECTION—C

Answer five questions, selecting one from each

Unit : $5 \times 5 = 25$

Unit—I

31. Describe in brief the *Astasthana Pariksha*.
32. Write common names (Sanskrit/Hindi), scientific names and uses of any five plants used in Ayurveda.

Unit—II

33. What is *ex situ* conservation? Give an account of the *ex situ* conservation strategies for the conservation of endangered medicinal plant resources. $1+4=5$
34. What are sacred groves? What are the different types of sacred groves? Write a note on the significance of sacred groves in the conservation of endangered plant resources. $1+1+3=5$

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Unit—III

35. Write an elaborate note on structure and uses of greenhouse.
36. Describe different types of layering with necessary diagrams.

Unit—IV

37. Describe different methods of Ethnobotanical investigation.
38. Write the scientific names, families, parts used and uses of five Ethnomedicinal plants of North-East India.

Unit—V

39. Mention about the plants used in the treatment of Jaundice and high blood pressure.
40. Write scientific names of five medicinal plants along with alkaloids/other products present in these plants and their uses.

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