



**2023/TDC(CBCS)/EVEN/SEM/
BOTSEC-401T/229**

TDC (CBCS) Even Semester Exam., 2023

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*

SECTION—A

Answer any *fifteen* of the following questions :

1×15=15

1. What is traditional medicine?
2. Who wrote *Charaka Samhita* and *Sushruta Samhita*?
3. Name the types of traditional healing practices in India.



(2)

4. What are herbal medicinal products?
5. Name the family to which Tulshi plant belongs.
6. What is the botanical name of Ashoka plant?
7. Define pharmacognosy.
8. Write the common name of *Centella asiatica*.
9. What do you mean by antipyretic properties of a plant?
10. Define herbal drug.
11. What is active principle?
12. Give two examples of secondary metabolite.
13. What do you mean by drug evaluation?
14. What is micropropagation of medicinal plants?
15. What is phytochemical tests for medicinal plants?
16. Write the scientific name of Sarpagandha.

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(3)

17. Define medicinal plant bank.
18. What is botanical name of Neem plant?
19. What is the common name for *Withania somnifera*?
20. What is herbal food?

SECTION—B

Answer any *five* of the following questions : 2×5=10

21. Write a brief note on scope of herbal medicine.
22. What is anthelmintic property? Name one anthelmintic plant.
23. Write the scientific name, family name and uses of ginger.
24. Write the uses of Ashoka plant.
25. What are the full forms of BP and IP in terms of pharmacological codex?
26. Write the uses of *Catharanthus roseus*.
27. Describe the types of adulteration of herbal drugs.

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(Turn Over)



(4)

28. Mention the role of secondary metabolites in pharmacognosy.
29. Write the steps for micropropagation of medicinal plants.
30. Give two examples of herbal food having excellent health benefits.

SECTION—C

Answer any *five* of the following questions : 5×5=25

31. Describe briefly the cultivation and harvesting of medicinal plants. Give a short account on Siddha system of medicine. 4+1=5
32. Mention a brief history on utilization of medicinal plants leading to the emergence of pharmacognosy. What are the steps for processing and storing of medicinal plants? 3+2=5
33. Write the botanical name, family name and uses of fenugreek.
34. Write the medicinal properties and uses of Indian Gooseberry and Tulshi.

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(5)

35. What is drug adulteration? Mention some analytical tests for detection of adulterated drugs. What is drug efficacy? 4+1=5
36. Write a note on some phytochemical screening tests of medicinal plants with special reference to secondary metabolites.
37. What do you mean by quality control of drug? How can quality and efficacy of a drug be controlled by regulatory body?
38. Discuss in brief the recent development and prospects of pharmacognosy research in India under the aegis of AYUSH.
39. Write a note on trading and marketing of herbal drugs in India. Name some reputed multinational companies involved in trading of herbal drugs.
40. How herbal foods can solve the recent food crisis and dependency on conventional food in India? Mention briefly the steps for micro-propagation of *Withania somnifera*.

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