

**2020/TDC (CBCS)/ODD/SEM/
EESSEC-301T/395**

**TDC (CBCS) Odd Semester Exam., 2020
held in March, 2021**

ECOLOGY AND ENVIRONMENTAL SCIENCE

(3rd Semester)

Course No. : EESSEC-301T

**(Bamboo Cultivation, Utilization
and Management)**

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 a monopodial bamboo?**
- 2. What is culm sheath?**
- 3. What is a sympodial bamboo?**

10-21/340 (2)

4. What is culm emergence?
5. What is a traditional bamboo product?
6. Name two bamboo species used for the preparation of incense stick.
7. Name four commercial bamboo products.
8. What is value addition?
9. What is a rhizome?
10. What is polyhouse?
11. Define culm layering.
12. What is culm cutting?
13. Name two indigenous recipes prepared from bamboo shoot.
14. What is fermentation technology?
15. Name four nutritional properties of bamboo shoot.
16. What is traditional fermentation?
17. What is sporadic flowering?

(3)

18. Name two bamboo diseases.
19. Name three village bamboo species.
20. Name two bamboo species that flowers gregariously.

SECTION—B

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

21. Give an account of diversity of bamboo species in North-East India.
22. Describe rhizome growth patterns found in bamboo.
23. Give an account of utilization of bamboo species in North-East India.
24. Describe the commercial utilization of bamboo species.
25. Describe the process of nursery bed preparation used for bamboo.
26. Describe the role of tissue culture techniques in bamboo propagation.

(4)

27. Give an account on processing technology of bamboo shoots.
28. Describe the laboratory fermentation techniques of bamboo shoots.
29. Give an account on different harvesting strategies adopted for forest bamboos.
30. Describe the pest management strategies adopted in bamboo.

SECTION—C

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

31. Explain briefly the diversity and distribution of sympodial and monopodial bamboo species in North-East India.
32. Explain briefly culm and clump characteristics of monopodial and sympodial bamboo species.
33. Describe the strategies that can improve the commercial utilization of bamboo.
34. Explain briefly the role of bamboo in rural socioeconomy.

(5)

35. Explain the vegetative propagation techniques used in bamboo.
36. Give a detailed account of seedling nursing and management.
37. Explain the use of bamboo as a source of food and its health benefits to the people of North-East India.
38. Explain the nutritional properties of bamboo shoot.
39. Discuss the nutrient and fertilizer management in bamboos.
40. Discuss merits and demerits of bamboo flowering on forest ecosystem.
