2023/FYUG/ODD/SEM/
EESSEC-101T/045

FYUG Odd Semester Exam., 2023
(Held in 2024)

ECOLOGY AND ENVIRONMENTAL SCIENCE

(1st Semester)

Course No. : EESSEC-101T

(Bamboo Cultivation Utilization and Management)

Full Marks : 50
Pass Marks : 20

Time : 2 hours

The figures in the margin indicate full marks for the questions

SECTION—A

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

UNIT—I

1. Define culm sheath.

2. Define culm emergence.

3. Define a clump.

4. What is a monopodial bamboo?

UNIT—II

5. What is village bamboo?

6. What is insect pest?

7. Name two pests of bamboo.

8. What is forest bamboo?

UNIT—III

9. What is propagation?

10. What is nursery bed?

11. What is mass flowering?

12. What is culm cutting?

UNIT—IV

13. What is a bamboo shoot?

14. Name two indigenous bamboo recipes.

15. Name two Oriental bamboo recipes.

16. Name two bamboo species used for edible bamboo shoots.

UNIT—V

17. What is value addition?

18. What is bamboo craft?

19. Name two bamboo species widely used in paper industry in Assam.

20. Name two traditional bamboo products.

SECTION—B

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

UNIT—I

21. Describe the factors responsible for shoot mortality.

22. Describe different rhizome types present in bamboo.

UNIT—II

23. What is selective felling?

24. Name dominant village bamboos of Assam.

UNIT—III

25. Describe the different stages of seedling nursing.

26. Describe the benefits of culm cutting and layering.

UNIT—IV

27. Name the nutritional properties of bamboo shoot.

28. Describe how bamboo shoots are important for human health.

UNIT—V

29. Describe the traditional utilization of bamboos in North-East India.

30. Briefly describe the importance of incense stick industry in rural economy improvement.

SECTION—C

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

UNIT—I

31. Describe the diversity and distribution of bamboo in Assam.

32. Describe the culm and clump characteristics of sympodial bamboo species.

UNIT—II

33. Describe the silvicultural management practized in developing bamboo plantation.

34. Describe the nutrient and fertilizer management in bamboos.

UNIT—III

35. Describe the concept of tissue culture and its application.

36. Describe the concept of greenhouse and its benefits.

UNIT—IV

37. Describe the traditional and laboratory fermentation techniques of bamboo shoots.

38. Describe the processing technology for storage of fresh bamboo shoots.

UNIT—V

39. Describe the prospect of commercial utilization of bamboos in North-East India.

40. Describe the role of value addition in imposing socioeconomy of bamboo artisans.

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