



**2023/TDC(CBCS)/EVEN/SEM/  
EESSEC-601T/208**

**TDC (CBCS) Even Semester Exam., 2023**

**ECOLOGY AND ENVIRONMENTAL SCIENCE**

**( 6th Semester )**

**Course No. : EESSEC-601T**

**( Ecosystem Analysis and Biodiversity )**

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 :

$1 \times 15 = 15$

1. What is grassland ecosystem?
2. Give one example of agro-ecosystem?
3. What is estuarine ecosystem?



<http://www.elearninginfo.in>

ANSWER ANY FIVE (5) QUESTIONS

4. Define ecosystem.
5. What is food web? Give example.
6. Give an example of forest ecosystem.
7. What do you mean by biogeochemical cycle?
8. What is gas exchange method?
9. Define community.
10. What is phenology?
11. What is basal area?
12. What is vertical stratification?
13. What is xerocere?
14. What is climax community?
15. What do you mean by ecological succession?
16. What is microbial succession?
17. What is gene bank?
18. What is IUCN?

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19. What is social forestry?
20. What is JFM?

SECTION—B

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

21. Write the characteristics of agro-ecosystem.
22. What is biome? Name the major biomes.
23. Write a note on phosphorous cycle.
24. What do you mean by primary and secondary succession?
25. What are the different methods of studying community?
26. What is the difference between core area and basal area?
27. What is the difference between density and abundance?
28. Write on the stages of ecological succession.

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(Turn Over)



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29. What is tissue culture? State its application.
30. Name the different biodiversity hotspots.

SECTION—C

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

31. Describe the characteristics of grassland and desert ecosystem. 3+2=5
32. Write notes on the following : 2+3=5  
(a) Pond ecosystem  
(b) Desert biome
33. What is ecological pyramid? Explain the different types of ecological pyramid with proper illustration. 1+4=5
34. Write a note on carbon cycle in nature with suitable diagrammatic illustration. 5
35. Describe the different methods of studying community. 5
36. Describe the characteristics of community with proper illustration. 5

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( 5 )

37. Explain the process of succession in hydrophytes. 5
38. What are the basic types of ecological succession? Explain each type of succession with proper illustration. 1+4=5
39. Describe the role of local communities and traditional knowledge in conservation of biodiversity. 5
40. Describe the role of botanical garden and gene bank in *ex-situ* conservation of biodiversity. 5

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