D 140093 **(Pages : 2)** **Name.....**

Reg. No.....

SIXTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2026

Botany

BOT 6B 13—ENVIRONMENTAL SCIENCE

(2020 Admission Onwards)

Time : Two Hours Maximum : 60 Marks

Section A

All questions can be answered.
Each question carries 2 marks.
Ceiling 20 Marks.

1. What are biotic and abiotic factors in an ecosystem ?
2. What is plant succession ?
3. Define hotspots.
4. What are the anatomical feature of epiphytes ?
5. Define Food chain.
6. Discuss the role of IUCN in biodiversity conservation
7. Analyze the impacts of water pollution.
8. What is a flagship species ?
9. Write short note on importance of value index.
10. Define biomagnificaion.
11. Name the types of transect methods.
12. Predict the pyramid of number.

(Ceiling 20 Marks)

Section B

All questions can be answered.
Each question carries 5 marks.
Ceiling 30 Marks.

13. Enumerate the carbon cycles with neat outline sketches.
14. Find out the ecological relevance of Grass lands.

Turn over

15. Discuss e-waste accumulation. Suggest methods to manage this.
16. Classify the types of plant succession.
17. List out the morphological adaptations in halophytes.
18. Differentiate Epiphytic and Parasitic adaptations.
19. Discuss ex situ and in situ methods of conservation.

(Ceiling 30 Marks)

Section C

Answer any **one** *question, the question carries 10 marks.*

20. Discuss about the major ecosystems of the biosphere.
21. What are the strategies used for solid waste management ?

(1 × 10 = 10 marks)

D 120083 **(Pages : 2)** **Name.....**

Reg. No.....

SIXTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
MARCH 2025

Botany

BOT 6B 13—ENVIRONMENTAL SCIENCE

(Admissions Year—2019 Onwards)

Time : Two Hours Maximum : 60 Marks

Section A

All questions can be answered.
Each question carries 2 *marks.*
Ceiling : 20 *marks.*

1. Differentiate xerosere and hydrosere.
2. Describe the morphological adaptations in epiphytes.
3. What are the purpose of biogeochemical cycles ? Give an example.
4. Comment on biodiversity hotspots.
5. How to find out the density and frequency of plant community ?
6. Give critical analysis of global warming and greenhouse gases.
7. Describe the ecological significance of estuarine ecosystem.
8. What is meant by dominance of populations ?
9. What is Red data book ?
10. Give the example of ex situ and insitu methods.
11. Define umbrella species.
12. Expand NBPGR and it's function.

Turn over

Section B

All questions can be answered.
Each question carries 5 *marks.*
(*Ceiling* : 30 *marks*)

13. Briefly explain the Nitrogen cycle.

14. Describe the ecological pyramid of ecosystem.

15. Discuss about the threats to biodiversity.

16. What are the biodegradable and non-biodegradable pollutants ?

17. Find out the morphological characters of hydrophytes with examples.

18. What is pollution ? Describe it's types.

19. What is pollution ? Briefly explain the types of pollution.

Section C

Answer any **one** *question, the question carries* 10 *marks.*

20. Give detailed about the techniques and various types of plant communities.

21. Elaborate the process and mechanism of ecological succession.

(1 × 10 = 10 marks)

D 100513 **(Pages : 2)** **Name.....**

Reg. No.....

SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2024

(CBCSS—UG)

Botany

BOT 6B 13—ENVIRONMENTAL SCIENCE

(2019 Admission onwards)

Time : Two Hours Maximum : 60 Marks

Section A

Answer **all** *questions.*
Each question carries 2 *marks.*
Ceiling : 20 *Marks.*

1. What are biodiversity hotspots ?
2. What is Red Data Book ?
3. Mention the important greenhouse gases and their sources.
4. What are non-biodegradable pollutants? Give an example.
5. Comment on *el-nino.*
6. What is meant by frequency in a community ?
7. Mention the salient features of energy flow in an ecosystem.
8. Write a short note on estuarine ecosystem.
9. Distinguish between *ex situ* and *in situ* conservation.
10. What is climatic climax ?
11. What do you understand by indicator species ?
12. What is meant by lotic ecosystem ? Give an example.

Turn over

Section B

Answer **all** *questions.*
Each question carries 5 *marks.*
Ceiling : 30 *Marks.*

13. Discuss the role of various organizations in conservation of biodiversity.

14. Write a brief account on the sources of water pollution.

15. Distinguish between Primary and secondary succession siting suitable examples.

16. Explain the morphological and anatomical adaptations found in xerophytes.

17. Give an account of the common techniques used in the study of plant communities.

18. Explain the various approaches followed in the management of environmental pollution.

19. Discuss the major threats to biodiversity.

Section C

Answer any **one** *question.*
The question carries 10 *marks.*

20. What are sedimentary cycles ? Explain Phosphorous with the help of a schematic diagram.

21. Explain ecological succession in xeric habitats siting suitable examples.

(1 × 10 = 10 marks)