



K24U 0015

Reg. No. :

Name :

Sixth Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2024
(2019 to 2021 Admissions)
CORE COURSE IN BOTANY/PLANT SCIENCE
6B10BOT/PLS : Environmental Science and Phytogeography

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams wherever specified.

PART – A
(Objective Type Questions)

Answer all. (4×1=4)

1. National Pollution Prevention Day is celebrated on
a) December 2 b) June 6 c) November 14 d) February 2
2. Myrmecophily refers to pollination by
a) Bats b) Insects c) Ants d) Spiders
3. Transition zone between two communities is called
a) Ecad b) Ecotone c) Ecotype d) Ecocline
4. An association between *Rhizobium* and legumes is an example of
a) Obligate mutualism b) Facultative mutualism
c) Commensalism d) Ammensalism

PART – B
(Short Essay Questions)

Answer any eight. (8×2=16)

5. Differentiate between autogenic and allogenic succession.
6. How is autecology different from synecology ?
7. Explain biotic factors affecting ecosystem.

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8. Differentiate between primary and secondary productivity.
9. What are ecads and ecotypes ?
10. Mention morphological adaptations of xerophytes.
11. What is phytograph ? How is it represented ?
12. Give two examples of facultative mutualism seen in plants.
13. Comment on ecologically and evolutionarily significance of parasitism.
14. What are the consequences of global warming ?
15. Mention few evidences in support of continental drift hypothesis.
16. Explain antagonistic interactions in plants.

PART – C
(Essay Questions)

Answer any four. (4×3=12)

17. Describe nitrogen cycle with the help of a suitable diagram.
18. Discuss the anatomical adaptations of hydrophytes.
19. Enumerate the major vegetation types of India.
20. List the major anthropogenic causes for the loss of biodiversity.
21. Explain the different types of ecological pyramids.
22. What is quadrat method of sampling? How are they classified according to their use ?

PART – D
(Long Essay Questions)

Answer any one. (1×8=8)

23. What is ecological succession ? Describe the various stages involved in xerosere.
24. Give a detailed account on water pollution, its causes, impacts and control measures.
25. Comment on 'Efforts of man for the restoration of natural resources'.