



K17U 2528

Reg. No.:

Name:

**I Semester B.Sc. Degree (C.B.C.S.S. – Reg./Supple./Improv.)
Examination, November 2017
CORE COURSE IN BOTANY/PLANT SCIENCE
1B01BOT/PLS : Environmental Science and Phytogeography
(2014 Admn. Onwards)**

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all**.

1. Zone of the earth's atmosphere where ozone umbrella is found
a) Troposphere b) Ionosphere c) Stratosphere d) Biosphere
2. The national park in Kerala which gives protection to Nilgiri Tahr
a) Devikulam b) Eravikulam
c) Silent valley d) Parambikulam
3. Alfred Wegener is associated with
a) Ecosystem b) Ecological pyramids
c) Continental drift hypothesis d) Law of 10%
4. Which among the following is used to measure the health of water bodies ?
a) BOD b) COD c) PAN d) GPS

(4×1=4)

SECTION – B

Answer **any eight**.

5. Explain vivipary. In which plant group is this commonly found ?
6. Draw a food web and explain.
7. Give an account of exhaustible energy resources.

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8. Explain eutrophication. What is its ecological significance ?
9. What do you mean by sustainable life style ?
10. What are Red data book and Green book ?
11. Write a short note on velamen.
12. What do you know about the Age and area hypothesis in Phytogeography ?
13. Give an account of photochemical smog.
14. Write briefly on rain water harvesting.
15. What role does the ozone umbrella play ?
16. What are drought escapers ? (8×2=16)

SECTION – C

Answer **any four**.

17. Describe the anatomical adaptations in xerophytes.
18. Compare the ecological pyramids of biomass with respect to a tree ecosystem and a grassland ecosystem, with the help of diagrams.
19. Give a brief account of the different processes that lead to plant succession.
20. Explain the anthropogenic activities that cause degradation of land resources.
21. Give an account of the major vegetational types in India.
22. Explain the concept of 3 R's in environmental science. (4×3=12)

SECTION – D

Answer **any one**.

23. Define lithosere. Describe the different seral stages in lithosere.
 24. Give an account of the various factors that lead to depletion of natural resources.
 25. Explain the different types of biodiversity. Write about the threats to biodiversity. (1×8=8)
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