

**16P426**

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Name.....

Reg.No.....

**FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, MARCH 2018**

(Regular/Supplementary/Improvement)

(CUCSS - PG)

**CC15 PBO4 E13–ENVIRONMENTAL BIOLOGY & BIODIVERSITY**

**CONSERVATION**

(Botany)

(2015 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

**Part A**

Answer *all* questions briefly. Each question carries *1* weightage.

1. Explain *Upavana Vinoda*.
2. Ramsar sites in Kerala.
3. Mention the term Ecological Guild.
4. Explain coevolution.
5. Advantages of wild species in genetic diversity.
6. Biosphere reserves.
7. Greenhouse gases.
8. Pyramid of energy.
9. Hardy Weinberg Equilibrium.
10. Sacred groves.
11. Ecotones.
12. Biodiversity hotspots.
13. What is alpha diversity.
14. Explain Gaus's principle with example.

**(14x1=14 Weightage)**

**Part B**

(Each question should not exceed more than *100* words.)

Answer any *seven* questions. Each question carries *2* weightage.

15. Give the differences between 'r' selection and 'k' selection.
16. Give a brief note about Deep ecology.
17. Kyoto protocol.
18. How nutrient recycling is maintained through the forest types of Kerala?
19. What are the major roles of educational institutions in biodiversity conservation?
20. Allelopathy is a sort of Amensalism. Evaluate this statement based on species interactions.

21. How disaster management practices are facilitated?
22. Explain Lanino and Elnino phenomenon.
23. Population explosion affect carrying capacity.Evaluate.
24. What do you mean by Exsitu and Insitu conservation?

**(7x2=14 weightage)**

**Part C**

(Each question should not exceed **300** words.)

Answer any **two** questions.Each question carries **4** weightage.

25. Explain wetlands and mangroves and is importance.
26. What are the major global environmental issues? Also explain its consequences and preventive measures.
27. Give a detailed account on different thoughts on ecology by eminent personalities.
28. Comment on various threats on biodiversity. Also explain about various conservation practices based on sustainable development.

**(2x4=8weightage)**

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