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Name.....

Reg. No.....

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THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014

(CUCSS)

Environmental Science

ES3 C12—BIODIVERSITY (Core)

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

*Answer all questions.
Each question carry 1 weightage.*

1. What is biodiversity crisis ?
2. What do you mean by population cycle ?
3. Expand UNESCO.
4. What are biosphere reserves ?
5. Define species.
6. What do you mean by endemic species ?
7. What is Bioversity International ?
8. Describe Malthusian growth pattern.
9. What is cloning ?
10. Define ecological niche.
11. What is farm forestry ?
12. What is the effect of random fluctuations in population growth ?
13. Name two hotspots in India.
14. What is GPS ?

(14 × 1 = 14 weightage)

Part B

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

15. Describe the merits and demerits of cryopreservation of animal tissues.
16. Distinguish between sanctuaries and national parks.
17. Describe the tools used in biodiversity documentation.

Turn over

18. List out the role of NBPGR.
19. Distinguish between species diversity and genetic diversity.
20. Describe the conservation of animal genetic diversity by ex situ conservation methods.
21. What is the ecological role of biodiversity ?
22. Describe the significance of traditional knowledge in conservation.
23. What are the measures to preserve marine biodiversity ?
24. What are the merits and demerits of *in situ* conservation ?

(7 × 2 = 14 weightage)

Part C

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

25. What is biodiversity mapping ? Discuss the role of remote sensing in biodiversity conservation.
26. What do you mean by forest management ? Discuss the role of agro forestry and social forestry in the conservation and management.
27. Describe the functions of biosphere reserves and discuss the benefits with reference to any biosphere reserves in Kerala.
28. Briefly explain the measures taken at national level for the preservation of plant germplasm.

(2 × 4 = 8 weightage)