MAR IVANIOS COLLEGE (AUTONOMOUS) THIRUVANANTHAPURAM

Reg. No. :.....................   Name :...................

Third Semester Career Related B.Sc. Degree Examination, November 2016

First Degree Programme under CBCSS

Core Course – IV: Biotechnology (for Botany and Biotechnology)

AUBB342: Environmental Studies and Phytogeography

Time: **3** Hours   Max. Marks: **80**

SECTION – A

*Answer **ALL** the following in a word or one or two sentences.*

1. Eutrophication.
2. Epiphytes.
3. Habitat.
4. Xerosere.
5. Red data book.
6. Aerosol.
7. Vivipary.
8. Pyramid of energy.
9. Food chain.
10. WWF.

(**10 × 1 = 10 Marks**)

SECTION – B

*Answer any **EIGHT** questions, not exceeding a paragraph.*

11. Differentiate between Phylloclade and Phyllode.
12. Grassland ecosystem.
13. Hot spots.
14. Discuss the ecological role of decomposers.

15. List out the reasons for population explosion.
16. Sustainable development.
17. El Nino.
18. Desertification.
19. Acid rain.
20. Velamen root.
21. Minamata epidemic.
22. Wild life sanctuaries.

(8 × 2 = 16 Marks)

SECTION – C

*Short essay type : Answer any **SIX** questions.*

23. Explain briefly Green house effect and Global warming.
24. Waste land reclamation.
25. Describe biomagnification.
26. Environment Protection Acts.
27. Discuss about solid waste management.
28. Explain the types of consumers with examples.
29. Mention the effects of thermal pollution. How can we control and manage it ?
30. Explain the methods of rain water harvesting.
31. Write a note on energy resources.

(6 × 4 = 24 Marks)

SECTION – D

*Long essay type : Answer any **TWO** questions.*

32. What is succession ? Mention the major mechanisms responsible for succession. Explain hydrosere in detail.
33. Write an essay on morphological, anatomical and physiological adaptations in xerophytes.
34. What is Biodiversity ? Describe the threats to Biodiversity.
35. Describe the causes, effects and control measures of water pollution.

(2 × 15 = 30 Marks)

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