Reg. No. : ....

Name : ....

First Semester M.Sc. Degree (CBSS – Reg./Supple. (Including Mercy Chance)/Imp.) Examination, October 2020
(2014 Admission Onwards)
BOTANY

BOT 1C04 : Environmental Science, Phytogeography and Forest Botany

Time : 3 Hours   Max. Marks : 60

Instruction : Draw diagrams **wherever** necessary.

SECTION – A

1. a) Explain the various types of species interactions.

    OR

   b) Distinguish between National Parks and National Sanctuaries.

2. a) Discuss the patterns of plant distribution.

    OR

   b) Explain the sources and economic importance of major and minor forest products of Kerala.   (2×8=16)

SECTION – B

Answer **any two**.   (2×6=12)

3. a) What is radiation pollution ? Mention any two sources of the same.   (1+2+3)

   b) Explain significance of 3 RS.

   c) Discuss El-Nino.

4. a) Define sustainable development.   (1+2+3)

   b) Explain sustainable indicators.

   c) Discuss equitable use of resources.

5. a) What is a hot spot ?   (1+2+3)

   b) Mention the causes of extinction of species.

   c) Distinguish between keystone species and flagship species with examples.

SECTION – C

Answer **any six**.

6. How air pollution can be controlled ?

7. Mention the methods of Solid Waste Management.

8. Explain age distribution and biotic potential of a population.

9. Explain acid rain and its effects.

10. Explain the ecology of plant invasion.

11. Explain the salient features of Indian Forest Act (1980).

12. Explain age and area hypothesis.

13. Mention the importance of protected areas.   (6×3=18)

SECTION – D

Answer **any seven**.

14. Cryopreservation.

15. UNEP.

16. Gamma diversity.

17. Ecotone and Edge effect.

18. Estuary.

19. Primary Productivity.

20. Global Warming.

21. Carrying Capacity.

22. Social Forestry.

23. Carbon Trading.   (7×2=14)

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