



K21P 4174

Reg. No. : .....

Name : .....

1 Semester M.Sc. Degree (C.B.S.S. - Reg./Supple. Imp.)

Examination, October 2021

(2018 Admission Onwards)

BOTANY

BOT1 C04 : Environmental Science, Phytogeography and  
Forest Botany

Time : 3 Hours

Total Marks : 60

## SECTION - A

1. a) Define an Ecosystem and give an account of Terrestrial Ecosystems.

OR

- b) Pattern of World plant distribution and phytogeographical zones of India.

2. a) Give a detailed account of Ecological succession in a terrestrial environment.

OR

- b) Define Biodiversity. Explain various strategies of conservation. (2×8=16)

## SECTION - B

(Answer any two.)

(2×6=12)

3. a) Define sustainability.

- b) Biodiversity Act 2002.

- c) Indicators of sustainability and equitable use. (1+2+3)

4. a) Define Population and Community.

- b) Demes and Dispersion.

- c) Population Characteristics. (1+2+3)

5. a) Define pollution.

- b) Three 'R' s in pollution control.

- c) Biological methods of control of pollution. (1+2+3)

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## SECTION - C

(Answer any six.)

(6×3=18)

6. What is EIA and comment on recent developments in India ?

7. What are the Threatened categories of IUCN ?

8. Theory of continental drift and its importance.

9. Give an account of Minor Forest Produces in Kerala.

10. Biodiversity hotspots.

11. Forest based industries with special reference to Kerala.

12. Define Endemism - Neo and paleo endemics.

13. Global warming and its impacts.

## SECTION - D

(Answer any seven.)

(7×2=14)

14. Importance Value Index (IVI)

15. Ecotone

16. Flagship species

17. Vicarism

18. Define a biome

19. National Parks

20. La nina

21. Ecological indicators

22. Carrying capacity

23. R and K Selection.