



K22P 1566

Reg. No. :

Name :

**I Semester M.Sc. Degree (CBSS – Reg./Sup./Imp.) Examination, October 2022
(2019 Admission Onwards)**

BOTANY

BOT 1C04 : Environmental Science, Phytogeography and Forest Botany

Time : 3 Hours

Max. Marks : 60



SECTION – A

1. a) Define pollution and discuss various measures to reduce pollution.

OR

b) Give an account on theories related with world distribution of plants.

2. a) Give a detailed account of Ecological succession in an hydrarch condition.

OR

b) Sustainability, CBD, Biodiversity Act and indicators of sustainability. **(2×8=16)**

SECTION – B

(Answer any two)

3. a) Define biodiversity.

b) Significance of biodiversity.

c) Strategies of biodiversity conservation.

(1+2+3)

4. a) IUCN and redlist.

b) Threatened categories of IUCN.

c) Examples and criteria for redlisting.

(1+2+3)

5. a) Define an ecosystem and a Biome.

b) Characteristics of aquatic ecosystem.

c) Classification of aquatic ecosystems.

(1+2+3)

(2×6=12)

P.T.O.



SECTION – C
(Answer **any six**)

6. A brief account of climate change and its impact on forest ecosystems.
7. Importance of schedules in Wildlife Protection Act, 1972.
8. Discuss various phytosociological parameters used in plant community studies.
9. Important forest produces in Kerala.
10. Compare flagship and keystone species.
11. National parks and wildlife sanctuaries.
12. El nino and La nina and its impact.
13. Give and outline of EIA.

(6×3=18)

SECTION – D
(Answer **any seven**)

14. Biodiversity Hotspots.
15. Edge effect.
16. Neo endemism.
17. Sweepstakes bridge.
18. Ecorestoration.
19. Community reserve.
20. Photochemical smog.
21. Biomagnification.
22. Eutrophication.
23. Indian Forest Conservation Act.

(7×2=14)