

M.Sc. (Botany) Semester - 3 (CBCS) Examination
OCT/NOV-2024 (AS PER SYLLABUS YEAR JUNE-2019)
Plant Ecology (Core (New))

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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SECTION- I

Q. 1 Answer the following (Two short Questions)

- (A) Discuss the composition and structure of the plant community. (07)
(B) Explain the qualitative and quantitative Characteristics of vegetation. (07)

OR

Q. 1 Describe the biodiversity hotspot and IUCN categories of threats. (14)

Q. 2 Answer the following (Two short Questions)

- (A) Write a note on soil erosion. (07)
(B) Discuss in detail about the food chain (07)

OR

Q. 2 Give a detailed account of greenhouse gases. (14)

Q. 3 Do as direct (any seven out of eight questions each of one mark) (07)

- (A) Describe the tolerance model of climax.
(B) Write any one scientific name of an invasive species with family.
(C) Give the full form of PBR and write its role.
(D) What is extinction and give one example.
(E) State the names of properties of soil.
(F) Write various mechanisms of phytoremediation.
(G) What is the shape of the biomass pyramid of grassland?
(H) What is the composition of soil?

SECTION- II

Q. 1 Write a detail note on light and water ecological factors. (14)

OR

Q. 1 Answer the following (Two short Questions)

- (A) Write a note on species interaction. (07)
(B) Describe the process of EIA. (07)

Q. 2 Write a principle of remote sensing and explain it's components, types and applications. (14)

OR

Q. 2 Answer the following (Two short Questions)

- (A) Discuss the application of GIS in forest management. (07)
(B) Write a note on the process of desertification. (07)

Q. 3 Do as direct (any seven out of eight questions each of one mark) (07)

- (A) Define desertification.
(B) What are the disadvantages of GIS?
(C) State the names of causes of desertification.
(D) What is vector data?
(E) Write the significance of EIA.
(F) What is carrying capacity?
(G) Explain about ozone layer.
(H) What is the principle of limiting factors?
