

M.Sc. (Botany) Semester - 3 (CBCS) Examination**Oct/Nov-2021 (NEW COURSE)****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

1. **Answer the followings**
 - A. Write a note on biodiversity hotspots. **07**
 - B. Describe composition and structure of plant community **07**

OR
1. **Explain analytical and synthetic characters of plant community.** **14**
2. **Answer the followings**
 - A. Explain about properties of soil. **07**
 - B. Describe energy flow. **07**

OR
2. **Write a note on terrestrial and aquatic ecosystem.** **14**
3. **Do as direct (any seven)** **07**
 1. What is phytosociological methods?
 2. Define speciation.
 3. Explain allogenic succession.
 4. State the role of National Biodiversity Authority.
 5. What is riparian erosion?
 6. What is the shape of pyramid of biomass in aquatic ecosystem?
 7. Define phytoremediation.
 8. What is phyto-extraction?

SECTION-II

1. **Describe various greenhouse gases and consequences of climate change** **14**

OR
1. **Answer the followings**
 - A. Discuss the ecological adaptations of xerophytes. **07**
 - B. Explain species interaction. **07**
2. **Write a note on causes and impacts of desertification** **14**

OR
2. **Answer the followings**
 - A. Write a note on remote sensing. **07**
 - B. What is basic principle of GIS and its application? **07**
3. **Do as direct (any seven)** **07**
 1. What is desertification?
 2. State the advantages of remote sensing.
 3. What is the vector data of GIS?
 4. What is active remote sensing?
 5. Explain EIA.
 6. What is greenhouse effect?
 7. Explain species interaction.
 8. What is Liebig's law of the minimum?
