



National Institute of Technology Srinagar (J&K)

ASSIGNMENT-II (SPRING-2020)

Ecosystems

Course: B. Tech.

Subject: **Environmental Studies**

Semester: 2nd

Max. Marks: 20

Submission Date: Up to 21st May, 2020

Branches: CSE, ECE, ELE & ITE

Subject Code: (CYL-101)

Session: Spring-2020

Issue Date: 15th May, 2020

Assignment Objective:

CO2: To learn about the various ecosystems of nature.

Note: Attempt all the questions. Each question carries equal marks.

| Q. No. | Questions | Marks | COs |
|--------|--|-------|-----|
| Q. 1. | (a) Explain the structural and functional aspects of an ecosystem. What are the direct and indirect values in the form of goods and services rendered by an ecosystem? (b) Discuss the transfer of toxins through various trophic levels? | 5 | 2 |
| Q. 2. | (a) What is ecological succession? Discuss its role in recolonization of an area by citing a suitable example. (b) Overview the nitrogen biogeochemical cycle with different stages and its importance in ecology. | 5 | 2 |
| Q. 3. | (a) What is grassland ecosystem? Discuss the types of grasslands in India and the main threats encountered by these ecosystems. (b) Explain the forest types in India. Evaluate the economic and social values of forest ecosystem. What are the current threats to forest ecosystem? | 5 | 2 |
| Q. 4. | (a) Explain the structural and functional aspects of pond ecosystem with the help of a neat sketch. (b) What are the major threats to an aquatic ecosystem? How can we protect them? | 5 | 2 |