

National Institute of Technology, Delhi

B.Tech, Mid Semester Exam
(First Semester, September 2016)

Title of the Course: Environmental Studies

Course Code: MEL 101

Time: 2 Hours

Maximum Marks: 25

SECTION –A

1. Attempt all parts of this question. Each part carries equal marks. (1x8=8)

- How simpler inorganic substances are released into the soil?
- Define COD and BOD, also explain their significance.
- Define Invasion, Mesarch, Pioneer species and Pasmmosere.
- Write the names of the sequential steps found during ecological succession.
- What was Minamata Bay tragedy?
- Why is chlorination not the most desirable method of disinfecting polluted water?
- Differentiate between aerobic and anaerobic treatments.
- List the parameters indicating water pollution.

SECTION—B

Attempt any three questions. Each question carries 4 marks. (4x3=12)

- Define Ecological Pyramids. Explain the various types of ecological pyramids with examples.
- Why fixation of nitrogen is necessary? With the help of neat sketch discuss nitrogen cycle in detail.
- What is biodiversity? Explain its status on national level and conservational strategies.
- Define ecosystem? Explain the structure and function of ecosystem.

SECTION –C

6. Attempt any one parts of this section. Each question carries 5 marks. (5x1=5)

- What are the ecological and medicinal use values of biodiversity? Also, discuss in detail Man and Biosphere Programme (MAB).
- Differentiate between pollutant and contaminant. Explain in detail the sources of water pollution and design of wastewater treatment plants with the help suitable diagrams.