

National Institute of Technology, Delhi**B. Tech-Make Up Examination, 2018****Title of the Course: Environmental Studies**
Time: 3 Hours**Course Code: MEL 101**
Maximum Marks: 50**SECTION –A****1. Attempt all parts of this question. Each part carries 1 mark. (1.25x8=10)**

- a. Why world Environment day is celebrated on 5th June?
- b. Why Pyramid of Number and Biomass are not upright always?
- c. Define Ecology, Ecosystem and Environment
- d. Define Nitrification and Denitrification
- e. Explain how simpler inorganic substances are released into the soil
- f. Difference between BOD and COD
- g. Why flow of material is cyclic and energy is non cyclic in Ecosystem?
- h. Explain Aerobic and Anaerobic treatment

SECTION—B**2. Attempt any four parts of this question. Each part carries 5 marks. (5x4=20)**

- a. Explain Nitrogen cycle with the help of neat sketch in detail.
- b. Define Ecological Pyramids. Write a detailed note on various types of ecological pyramids
- c. Explain in detail the mechanism of enhanced green house and its effects.
- d. What is biodiversity? Explain the values and conservational strategies of biodiversity.
- e. Write a detailed note on (any two)
 - i. Food chain
 - ii. Food web
 - iii. Ecological succession

SECTION –C**3. Attempt any two parts of this question. Each part carries 10 marks. (10x2=20)**

- a. Define renewable and nonrenewable resources. Explain in detail wastewater treatment plant with the help of flow chart

- b. Define air pollutants. Write a detailed note on generation and effects of air pollution (on human health, buildings and plants) and control measures.
- c. Explain Ozone layer depletion and its effects in detail. Also, discuss the Montreal protocol.