National Institute of Technology, Delhi

B.Tech, Mid Semester Exam

(First Semester, September 2017)

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)
- a. How simpler inorganic substances are released into the soil?
- b. Define Invasion, Mesarch, Pioneer species and Pasmmosere.
- c. Why flow of material is cyclic and energy is non cyclic in Ecosystem?
- d. Differentiate between Photosynthesis and Respiration.
- e. Differentiate between Adjustment and Modification.
- f. Define Bioaccumulation and Biological magnification
- a. Define Food chain and Food webs.
- g. Explain Gross primary production (GPP), Net primary production (NPP) and Secondary production

SECTION-B

Attempt any three questions. Each question carries 4 marks.

(4x3=12)

- 2. Define Ecological Pyramids. Explain the various types of ecological pyramids with examples
- 3. Why fixation of nitrogen is necessary? With the help of neat sketch discuss nitrogen cycle in detail.
- 4. Define ecosystem? Explain the structure and function of ecosystem.
- 5. What is biodiversity? Explain the values and conservational strategies of biodiversity.

SECTION -C

Attempt any one part of this section. Each question carries 5 marks.

(5x1=5)

- 6. Discuss Man and Biosphere Programme (MAB) in detail.
- 7. What is ecological succession? Explain in detail the steps involved in ecological succession.