

**DOON UNIVERSITY, DEHRADUN**

**Mid –Term Examination**

**School of Economics/Social Sciences**

**MSc. Integrated Third Semester, 2014-2015**

**EES-110: Environmental Studies**

**Time: 2:00 hours**

**Maximum Marks :30**

**Note: Attempt Questions from all sections :A,B,C**

**SECTION : A (Objective Type Questions ) Attempt all (Marks : 10x1=10)**

**Q1. Which of the following conceptual spheres of the environment is having the least storage capacity for matter?**

- a) Atmosphere b) Hydrosphere c) Lithosphere d) Biosphere

**Q2. Primary component in Biogeochemical cycle is**

- a) human beings b) large animals c) water d) plants and microbes

**Q3. Earth's environment is mainly influenced by which forms of solar energy-**

- a) Light & heat b) X-rays & Y-rays c) UV radiation d) Low & high frequency radiations

**Q4. Atmosphere is divided into-**

- 4 concentric layers b) 5 concentric layers c) 3 concentric layers d) 2 concentric

**Q5. The concept of ecological pyramid was given by-**

- a) Anon kerner b) Charles Elton c) Warming d) Mayor

**Q6. A food web is consists of -**

- a) a portion of a food chain b) producers, consumers & decomposers  
b) c) interlocking of food chains d) a set of similar consumers

**Q7. The objective of environmental education is-**

- a) raise consciousness about environmental conditions  
b) to teach environmentally appropriate behavior  
c) create an environmental awareness among the people  
d) all of the above

**Q8. In an aquatic ecosystem zooplankton can be considered as a -**

- a) consumer b) producer c) saprotrophs d) nutrients

**Q9.** The food chain in which micro-organisms breakdown dead producers is called

- a) consumer food chain b) predator food chain c) parasitic food chain d) detritus food chain

**Q10.** Gross primary productivity is the highest in –

- a) Open oceans b) Grasslands c) Wet tropical forests d) Agroecosystems.

**SECTION : B (Short Answer Type Questions ) Attempt any four (Marks : 4x3=12)**

Q1. Define ecosystem . Give an account of the structure of an ecosystem.

Q2. The flow of energy is one way and continuous in an ecosystem Justify.

Q3. Explain the following : ecological pyramids and productivity

Q4. Depict diagrammatically the carbon and water cycle and also explain them.

Q5. What role the teachers and students can play for protection of environment?

**SECTION : C (Long Answer Type Questions ) Attempt any one (Marks : 1x8=8)**

Q1. Define biogeochemical cycles. How does nitrogen circulation occur in nature ?

Q2. What are ecosystem energetic ? Describe the energy flow of an ecosystem .