

7-12-17



School of Environment & Natural Resources (SENR)

End-Semester Exam 2017

M.Sc. – 1st Sem Final Exam

ENR- 514 :Forest Ecosystem and Management

Max Marks : 30

Time : 3 hours

Section A

Note: - All questions are compulsory. Tick the right answer. (15 x 1 = 15 marks)

1. The specific physical space occupied by an organism as well as its functional role in ecosystem is known as
 - a. Habitat
 - b. Ecosystem
 - c. Niche
 - d. Population

2. Study of Ecology of population is called
 - a. Autecology
 - b. Synecology
 - c. Demecology
 - d. Ecotype

3. A transition zone between two adjacent biomes are known as
 - a. Ecosystem
 - b. Ecotype
 - c. Ecotone
 - d. Ecad

4. If in a population , natality is balance by mortality then there will be
 - a. Decrease in population growth
 - b. Zero population growth
 - c. Over population
 - d. Increase in population growth

5. The concept of ecological pyramid was first proposed by
 - a. E.P. Odum
 - b. A.G.Tansley
 - c. Juday
 - d. Charles Elton

6. The pyramid of number in a single tree is
 - a. Upright

- 71-51-5
- b. Inverted
 - c. Spindle shaped
 - d. None of these

7. Which one of the following is not a functional unit of an ecosystem

- a. Productivity
- b. Energy flow
- c. Stratification
- d. Decomposition

8. An ecosystem which can be easily damaged but can recover after sometime, if damaging effect stops will be having

- a. High stability and high resilience
- b. Low stability and Low resilience
- c. High stability and Low resilience
- d. Low stability and high resilience

9. A renewable exhaustible natural resource is

- a. Petroleum
- b. Coal
- c. Forest
- d. Minerals

10. In a pyramid of numbers, in a grassland ecosystem, the largest population is that of

- a. Herbivores
- b. Primary consumers
- c. Secondary consumers
- d. Producers

Section B

Write short notes on any 4 (4x 3 =12)(150 words)

- 1. Van panchayat
- 2. Symbiosis with two example
- 3. NTFP
- 4. Sacred Grooves
- 5. Food chain and Food web
- 6. Nitrogen cycle

Section C

Write in detail on any 2 of the following (4x2=8) (250 words)

- 1. Ecosystem services provided by the forest
- 2. Flow of energy with in the forest ecosystem
- 3. Interactions among species
- 4. Redundancy and resilience