



KERALA AGRICULTURAL UNIVERSITY  
B.Tech.(Food Technology) 2021 Admission  
I Semester Final Examination - May 2022

Swce.1101

Environmental Science & Disaster Management (1+1)

Marks: 50  
Time: 2 hours

I Choose the correct answer

(10x1=10)

1. Montreal Protocols focuses towards .....
  - a) Ozone layer protection
  - b) Biodiversity conservation
  - c) Climate Change
  - d) Global warming
2. Kyoto protocol focuses towards .....
  - a) Population
  - b) Pollution
  - c) Global Warming
  - d) Resource management
3. Energy in an ecosystem .....
  - a) absorbed
  - b) released
  - c) flows
  - d) None of the above
4. pH of the acid rain will be .....
  - a) less than 5.6
  - b) more than 5.6
  - c) equal to 7.0
  - d) more than 7.0
5. Which of the following is an example of abiotic component of the environment?
  - a) animal
  - b) vegetation
  - c) wind
  - d) all of the above
6. The sum total of a population's use of biotic and abiotic resources of its habitat constitutes its .....
  - a) environment
  - b) niche
  - c) range
  - d) evolution
7. Denitrifying bacteria converts ..... to .....
  - a) ammonium ; nitrates
  - b) nitrates ; nitrogen gas
  - c) nitrogen gas; nitrates
  - d) nitrogen gas; nitrites
8. In a terrestrial ecosystem, the trophic level that would contain the largest biomass would be the .....
  - a) producers
  - b) primary consumers
  - c) secondary consumers
  - d) decomposers

9. Carbon mainly cycles between the biotic and abiotic worlds through the processes of .....

- a) Cellular respiration
- b) transpiration and photosynthesis
- c) evaporation and photosynthesis
- d) Cellular respiration and photosynthesis

10. Introduced species

- a) can disrupt the balance of the natural species with which they become associated.
- b) often fails to colonize the new area.
- c) may become common enough to become pests.
- d) Both B and C are correct.
- e) A, B, and C are all correct

**II Write short notes on ANY FIVE of the following**

**(5x2=10)**

- 1. Ecology
- 2. Population
- 3. Ecological Pyramid
- 4. Estuarine ecosystem
- 5. Lithosphere
- 6. Eutrophication
- 7. Greenhouse gases

**III Answer ANY FIVE of the following**

**(5x4=20)**

- 1. Explain the components of ecosystem with examples.
- 2. Explain the relationship between man and environment.
- 3. Explain the types of population pyramids.
- 4. Explain the adverse effects of over exploitation of water resources.
- 5. Tabulate the difference between renewable and non-renewable resources.
- 6. Explain the structure of the atmosphere.
- 7. Explain the adverse effects of acid rain.

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

- 1. Explain in detail the types of biogeochemical cycle.
- 2. Write in detail about non-conventional energy sources, their advantages and its limitations.

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