# Bago University Department of Botany Second Semester Examination, September, 2019

Fourth Year (B.Sc) Botany Specialization Answer All Questions

Bot.4107 Applied Ecology Time allowed: (3) Hours

## I. Determine whether each statement is TRUE or FALSE.

(10 marks)

- 1. The peregrine falcon is broadly distributed across habitats and geographic regions.
- 2. Aquatic environments are particularly vulnerable to pollution.
- 3. Many introduced species are assimilated into communities without much obvious effect.
- 4. Parasitic was undoubtedly over collected to provide herbarium specimens.
- 5. Priorities for marine conservation have lagged behind terrestrial efforts.
- 6. Some introduced species have become utterly dependent on people for reproduction.
- 7. Fire ants introduced from Argentina into the southern United State in ships' ballast.
- 8. Andropogon pertusus has become the commonest grass in lowland Jamaica.
- 9. In Britain, a large proportion of elm trees died in the 1970's.
- 10. Economic management of businesses involves decisions based on uncertain predictions.

## II. Write correct word to complete the following sentences.

(10 marks)

- 1. Like all ecological populations, the human population is -----
- 2. Global catches of marine fish ----- five-fold between 1950 and 1989.
- 3. Farmed resources are obtained by taking chosen ----- of plant or animal.
- 4. Fishing and hunting have been human ----- since our early history as hunter-gatherers.
- 5. The soil also serves as a store of essential ----- nutrients and water.
- 6. Agricultural land is also highly susceptible to ----- in arid and semiarid region.
- 7. Fresh water is used in crop irrigation and ----- consumption.
- 8. Inoculation is widely practiced in the biological control of pests in -----
- 9. In agriculture, more ----- pests might lead to lower yields.
- 10. Ionizing radiation was the first ----- pollutant given national attention.

#### III. Answer all questions.

(10 marks)

- 1. Name the two species of natural enemy.
- 2. State the Integrated Farming Systems.
- 3. List the three main ways of habitat disruption.
- 4. Give only diagram of extinction vortices.
- 5. Define the strategic environmental assessment (SEA).

#### IV. Answer all questions.

(20 marks)

- 1. Give short note on Anchoveta and El Nino.
- 2. Write down the monoculture can maximize the rate of food production.
- 3. How does emit gaseous waste into the atmosphere?
- 4. Write short note on habitat degradation by pollution.

### V. Answer any three questions.

(30 marks)

- 1. Generalize about human population problem of Topical Econcerns.
- 2. Give a detail account on smog of wastes emitted into the atmosphere.
- 3. Explain why does cause pollutants by nuclear accidents.
- 4. Write detail account on overexploitation.
- 5. Discuss the three kinds of uncertainty or variation of small populations.