

Course No: UNI 3316

Course Title: Environmental Science I

Date: 23/03/2015

No. of Questions: (2)

Time: 1 hours

Using Calculator (No)

University of Palestine



Midterm Exam  
2<sup>nd</sup> Semester 2014/2015  
Total Grade: 30

Instructor Name: Dipl. Ing. Awny N. Naim

Student No.: \_\_\_\_\_

Student Name: \_\_\_\_\_

College Name: College of Dentistry

Dep. / Specialist: \_\_\_\_\_

Using Dictionary (No)

## Question One: Multiple Choice

### Choose the best answer

- 1. The relationship between a producer and a primary consumer is best illustrated by**
  - a. sheep eating grass
  - b. wolves eating a moose
  - c. mushrooms growing on rotting logs
  - d. leaves growing on trees
- 2. Denitrification is defined as**
  - a. the conversion of nitrate and ammonia into plant proteins
  - b. the cycling of nitrogen through an ecosystem
  - c. the conversion of nitrate and ammonia into nitrogen gas
  - d. the removal of nitrogen from the atmosphere
- 3. In a predator-prey relationship, an increase in the predator population is usually followed by**
  - a. an increase in the damage to the environment by the prey
  - b. an decrease in the prey population
  - c. an increase in the birth rate of the prey
  - d. starvation of the prey
- 4. Which of the following is an abiotic?**
  - a. Water
  - b. Bacteria
  - c. Grass
  - d. Tree
- 5. A rabbit eats grass, and a fox eats the rabbit. In this food chain, the fox is a**
  - a. Producer
  - b. primary consumer
  - c. secondary consumer
  - d. scavenger
- 6. Which statement is true for a pyramid of energy?**
  - a. Primary consumers contain the greatest amount of energy.
  - b. The pyramid represents the total amount of living material per trophic level.
  - c. The least amount of energy is within the producers.
  - d. Less energy is available to organisms higher up the pyramid.

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- 7. A decomposer is**
- an organism that eats plants
  - a dead organism
  - an organism that breaks down dead matter and waste
  - an organism that lives inside a host organism and eats the host.
- 8. A tree produces acorns, and a squirrel eats the acorns. The squirrel dies and crows eat its dead body. In this food chain, the crows are defined as**
- scavengers
  - secondary consumers
  - tertiary consumers
  - decomposers
- 9. Which of these is not a producer?**
- a tomato plant
  - a pine tree
  - a mushroom
  - an apple tree
- 10. A group of interacting species occurring in the same place is considered to be a/an**
- Ecosystem
  - Population
  - Community
  - Trophic level
- 11. Which reaction in the nitrogen cycle is responsible for converting ammonia into a form of nitrogen more available to plants?**
- Nitrogen fixation
  - Denitrification
  - Ammonification
  - Nitrification
- 12. It is warming of the Earth due to the insulating effect of gases in the atmosphere, such as carbon dioxide and water vapor.**
- Greenhouse Effect
  - Geosphere
  - Recharge Zone
  - Greenhouse Gases

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**13. Makes its own food.**

- a. Producer
- b. Lion
- c. Groundwater
- d. Consumer

**14. The mass of air surrounding the Earth.**

- a. Troposphere
- b. Geosphere
- c. Atmosphere
- d. Asthenosphere

**15. The regions of the surface and atmosphere of the Earth where living organisms exist.**

- a. Biosphere
- b. Stratosphere
- c. Angiosperm
- d. Lithosphere


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**Question Two: True or False**

- 1) The word Environment is derived from the French word “Environ” which means “surrounding”.  
**True            False**
- 2) An ecosystem is a natural system consisting of biotic factors in an area functioning together with all the non-living physical factors of the environment.  
**True            False**
- 3) A community consists of the same species that live and interact in the same region at the same time.  
**True            False**
- 4) The products of cellular respiration are carbon dioxide, water and energy while the products of photosynthesis are glucose and carbon dioxide.  
**True            False**
- 5) An ecological population is individuals of one species in a given area.  
**True            False**

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- 6) Ecology is study of interactions between non-living components in the environment and Living organisms.  
**True      False**
- 7) Environmental science is often used as a substitute of the term ECOLOGY.  
**True      False**
- 8) A biogeochemical cycle is a description of a substance movement through the biotic factors in the environment.  
**True      False**
- 9) The four major components – or reservoirs – of Earth's systems are atmosphere, hydrosphere, lithosphere and biosphere.  
**True      False**
- 10) An ecosystem survives by a combination of energy and matter recycling.  
**True      False**
- 11) The monthly variation of carbon dioxide over the period of a year because of the wind speed variation.  
**True      False**
- 12) Conversion of ammonia into nitrites and then nitrates is called nitrification.  
**True      False**
- 13) Adding nitrous oxide to the atmosphere through farming practices is a very important measure to protect the ozone layer .  
**True      False**
- 14) Acid rain is caused by a chemical reaction that begins when compounds like sulfur dioxide and nitrogen oxides are released into the air.  
**True      False**
- 15) The '**polluters pays**' principle is the commonly accepted practice that those who produce pollution should bear the costs of managing it to prevent damage to human health or the environment.  
**True      False**

**End of Questions**  
*Good Luck*