

Unit .3

LESSON .1

1 Choose the correct answer

1 Which of the following describes the Biosphere most accurately ?

- A The layer of gases surrounding the Earth.
- B Living organisms and the areas where they live on Earth.
- C The water found on the Earth's surface.
- D The rocks that make up the Earth's crust.

2 The biosphere extends from:

- A Rivers to deserts
- B Oceans to mountains
- C Soil to atmosphere only
- D Forests to rivers

3 The Biosphere interacts with the Hydrosphere when:

- A Living organisms breathe oxygen.
- B Plants absorb water from the soil.
- C Mountains are formed from rocks.
- D Wind moves in the atmosphere.

4 The biosphere is described as:

- A Simple system
- B An isolated system
- C A vast integrated system
- D A mechanical system

5 The lithosphere provides plant with to perform photosynthesis

- A Water
- B Air
- C Mineral elements
- D Sunlight

6 Which of the following relationships shows the integration of Earth's spheres with biosphere?

- A Decomposition of dead leaves in the soil by bacteria.
- B Wind movement above the sea surface only.
- C Evaporation of water from the surface of rocks.
- D Formation of mountains from volcanic lava.

7 Biotic factors are:

- A Non-living components
- B Living components
- C Chemical substances
- D Physical forces

- 8 In an ecosystem, sunlight represents a factor that is:**
- A** Biotic
 - B** Reproductive
 - C** Abiotic
 - D** Genetic
- 9 Which of the following examples shows an interaction between Biotic and Abiotic factors?**
- A** A lion preying on a deer.
 - B** A plant absorbing sunlight to produce its food.
 - C** Fruit rotting due to fungi.
 - D** The formation of a bird community in a forest.
- 10 Organisms within an ecosystem can be classed as.....**
- A** Producers, consumers and fungi.
 - B** Producers, consumers and biotics .
 - C** Producers, consumers and decomposers.
 - D** Producers, decomposers and fungi.
- 11 Decomposers in food chains**
- A** represent the primary source of energy.
 - B** recycle nutrients to the ecosystem.
 - C** absorb energy from sun.
 - D** represents base of the energy pyramid.
- 12 Which of the following levels represents a group of different species living and interacting in one area?**
- A** Organism
 - B** Population
 - C** Biological Community
 - D** Ecosystem
- 13 The highest level of organization is:**
- A** Species
 - B** Population
 - C** Community
 - D** Biosphere
- 14 A Herd of antelopes in the African savanna represents**
- A** Individual
 - B** Population
 - C** Community
 - D** Biosphere
- 15 A biome is formed when:**
- A** ecosystems share similar climate and organisms
 - B** a group of individuals of the same species living share the same place
 - C** various populations of different species share the same area
 - D** all are correct

16 The biosphere is:

- A The air layer only
- B The deep layers of the Earth's crust only
- C The part of the Earth where life exists
- D The land surface only

17 An ecosystem consists of :

- A Population only
- B Community only
- C A community and interacting abiotic factors
- D A biome and the biosphere

18 Which order is correct from smallest to largest?

- A Ecosystem → Community → Population → Organism
- B Organism → Population → Community → Ecosystem
- C Community → Population → Organism → Ecosystem
- D Population → Organism → Community → Ecosystem

19 The main function of food webs is to:

- A Measure light in the environment
- B Show the transfer of matter and energy among organisms
- C Determine temperature
- D Determine plant color

20 In the absence of decomposers, what usually happens?

- A Nutrient cycles continue without change
- B Accumulation of remains and stoppage of nutrient cycles
- C Increase in oxygen production
- D Increase in the number of predators

2 Explain the following

1 The Biosphere is considered an integrated system that includes all living organisms and the areas where they exist on Earth.

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2 The diversity of types of living organisms in different environments.

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- ## 5 The importance of decomposers in ecosystem