

**Started on** Wednesday, 5 February 2025, 7:59 AM**State** Finished**Completed on** Wednesday, 5 February 2025, 8:01 AM**Time taken** 1 min 38 secs**Marks** 11.00/11.00**Grade** 30.00 out of 30.00 (100%)

## Question 1

Correct

Mark 1.00 out of 1.00

\_\_\_\_\_ is a tool that uses land as the unit of measurement to assess per capita consumption, production, and discharge needs.

Select one:

- ☒ a. Ecological footprint ✓
- ☐ b. GDP
- ☐ c. Green accounting
- ☐ d. Sustainable development

## Question 2

Correct

Mark 1.00 out of 1.00

The smallest unit of biological structure that meets the functional requirements of “living” is the \_\_\_\_\_.

Select one:

- ☐ a. organ
- ☐ b. organelle
- ☒ c. cell ✓
- ☐ d. macromolecule

**Question 3**

Correct

Mark 1.00 out of 1.00

A suggested and testable explanation for an event is called a \_\_\_\_\_.

Select one:

- ☒ a. hypothesis ✓
- ☐ b. variable
- ☐ c. theory
- ☐ d. control

**Question 4**

Correct

Mark 1.00 out of 1.00

The type of logical thinking that uses related observations to arrive at a general conclusion is called \_\_\_\_\_.

Select one:

- ☐ a. deductive reasoning
- ☐ b. the scientific method
- ☐ c. hypothesis-based science
- ☒ d. inductive reasoning ✓

**Question 5**

Correct

Mark 1.00 out of 1.00

Which of the following statements is not true?

Select one:

- ☐ a. Water is polar.
- ☐ b. Water stabilizes temperature.
- ☐ c. Water is essential for life.
- ☒ d. Water is the most abundant atom in Earth's atmosphere. ✓

**Question 6**

Correct

Mark 1.00 out of 1.00

Using a pH meter, you find the pH of an unknown solution to be 8.0. How would you describe this solution?

Select one:

- ☐ a. weakly acidic
- ☐ b. strongly acidic
- ☒ c. weakly basic ✓
- ☐ d. strongly basic

**Question 7**

Correct

Mark 1.00 out of 1.00

An example of a monosaccharide is \_\_\_\_\_.

Select one:

- ☐ a. fructose
- ☐ b. glucose
- ☐ c. galactose
- ☒ d. all of the above ✓

**Question 8**

Correct

Mark 1.00 out of 1.00

Which of these do all prokaryotes and eukaryotes share?

Select one:

- ☐ a. nuclear envelope
- ☐ b. cell walls
- ☐ c. organelles
- ☒ d. plasma membrane ✓

**Question 9**

Correct

Mark 1.00 out of 1.00

Which of the following is found both in eukaryotic and prokaryotic cells?

Select one:

- ☐ a. nucleus
- ☐ b. mitochondrion
- ☐ c. vacuole
- ☒ d. ribosome ✓

**Question 10**

Correct

Mark 1.00 out of 1.00

What two products result from photosynthesis?

Select one:

- ☐ a. water and carbon dioxide
- ☐ b. water and oxygen
- ☒ c. glucose and oxygen ✓
- ☐ d. glucose and carbon dioxide

**Question 11**

Correct

Mark 1.00 out of 1.00

From where does a heterotroph directly obtain its energy?

Select one:

- ☐ a. the sun
- ☐ b. the sun and eating other organisms
- ☒ c. eating other organisms ✓
- ☐ d. simple chemicals in the environment