

Question 1

Which of the following are current limiting factors for future human population growth?

- A) pollution and land for agriculture
- B) availability of oxygen and water
- C) fossil fuels and carbon dioxide production
- D) oxygen levels in the atmosphere and availability of sodium chloride

Answer: <https://biology-forums.com/index.php?topic=258633>

Question 2

Nuclear power plants in use today rely on

- A) fission reactions to generate heat to boil water.
- B) fission reactions to directly generate electricity.
- C) fusion reactions to generate heat to boil water.
- D) fusion reactions to directly generate electricity.

Answer: <https://biology-forums.com/index.php?topic=259235>

Question 3

When an herbicide is typically sprayed on a field, it breaks down in the presence of sunlight into a new molecule. Researchers hope to investigate whether the new molecule occurs in municipal water samples and well water in a rural community in Minnesota. This water testing, and a determination of the amount of chemical ingested by members of the community, represents a type of

- A) exposure assessment.
- B) dose-response assessment.
- C) hazard assessment.
- D) risk characterization.

Answer: <https://biology-forums.com/index.php?topic=256535>

Question 4

The history of bottle laws in the United States reveals that as of 2010, there are

- A) 24 states with bottle laws, 3 states have repealed them, and they result in a return rate of about 50%.
- B) 11 states with bottle laws, no states have repealed them, and they result in a return rate of about 75%.
- C) 3 states with bottle laws, one state repealed them, and they result in a return rate of about 25%.
- D) 37 states with bottle laws, 3 states have repealed them, and they result in a return rate of about 60%.

Answer: <https://biology-forums.com/index.php?topic=257169>

Question 5

The relationship between the dung beetles and the disease-carrying flies is a type of

- A) mutualism.
- B) commensalism.
- C) intraspecific competition.
- D) interspecific competition.

Answer: <https://biology-forums.com/index.php?topic=258259>

Question 6

If the trends in pesticide use over the past 30 years continue, we can expect that pesticide use will

- A) drop to near zero in the next decade.
- B) continue to decrease slowly.
- C) increase gradually.
- D) double in the next ten years.

Answer: <https://biology-forums.com/index.php?topic=259126>

Question 7

Most of the national forests in the United States

- A) have been protected for more than a century from any lumbering activities.
- B) occur in locations where logging is impractical.
- C) have been destroyed by invasive species.
- D) have been managed for commercial timber harvest.

Answer: <https://biology-forums.com/index.php?topic=258595>

Question 8

Firewood burns better than rocks because

- A) firewood has more potential energy.
- B) firewood has more kinetic energy.
- C) rocks have more potential energy.
- D) rocks have more kinetic energy.

Answer: <https://biology-forums.com/index.php?topic=258203>

Question 9

As a cold front moves into an area of warm, moist air, we would expect to see cloud formation as

- A) the warm air rises and condenses.
- B) the cold air rises and condenses.
- C) evaporation and transpiration increase.
- D) high altitude air masses fall and condense.

Answer: <https://biology-forums.com/index.php?topic=258799>

Question 10

Which one of the following is the broadest scope of ecological study?

- A) ecosystem ecology
- B) landscape ecology
- C) population ecology
- D) community ecology

Answer: <https://biology-forums.com/index.php?topic=258137>

Question 11

Indonesia has become a model for other rice growing nations because

- A) they switched from heavy pesticide spraying to IPM with help from the FAO.
- B) they have planted exclusively the improved GM golden rice.
- C) they have brokered cheap prices for importing U.S. made pesticides.
- D) rice is planted and grown in undisturbed ecosystems.

Answer: <https://biology-forums.com/index.php?topic=259117>

Question 12

The ecological economic paradigm argues that the environment encompasses the economy because the environment is essential to provide

- A) the energy necessary to run our homes and factories.
- B) solar energy needed for plants and to light our environment during the day.
- C) transportation along highways, railways, rivers, and oceans.
- D) vital raw materials and ecosystem services and absorb wastes.

Answer: <https://biology-forums.com/index.php?topic=258075>

Question 13

The Atlanta BeltLine Project addresses environmental justice issues because it will

- A) use a mix a public and private funding.
- B) create many temporary construction jobs.
- C) expand the parks and trails of the area.
- D) clean up and redevelop more than 1000 acres of brownfields.

Answer: <https://biology-forums.com/index.php?topic=257371>

Question 14

Some drugs that are currently used with great success to treat cancer and viral infections

- A) are derived from wild plants.
- B) represent the intrinsic value of wild species.
- C) are derived from cultivars that combine together traits of several other plants.
- D) were discovered as mutations in the development of new cultivars of wheat.

Answer: <https://biology-forums.com/index.php?topic=258421>

Question 15

Which one of the following loops is least susceptible to pollution?

- A) evapotranspiration loop.
- B) surface runoff loop.
- C) precipitation loop.
- D) groundwater loop.

Answer: <https://biology-forums.com/index.php?topic=258809>

Question 16

Fossil fuels are considered non-renewable sources of energy because

- A) their formation is so slow.
- B) they release carbon dioxide when they are burned.
- C) people are cutting down too many forests to allow trees to turn into coal.
- D) carbon dioxide levels in the atmosphere are too low to allow fossil fuels to form.

Answer: <https://biology-forums.com/index.php?topic=259165>

Question 17

A recent study indicated that more than 60% of human pathogens are zoonotic, meaning that they

- A) can infect any animal species.
- B) originate in humans and spread to various species of animals.
- C) can be transmitted between animals and humans.
- D) are invariably fatal in animals but can cause serious illness to humans.

Answer: <https://biology-forums.com/index.php?topic=259400>

Question 18

Which field was the control group?

- A) the west field
- B) the east field
- C) Both fields were controls for one another.
- D) There were no controls in this experiment.

Answer: <https://biology-forums.com/index.php?topic=258023>

Question 19

In this figure, which of the following represents a potentially sustainable process?

- A) the transformation of oil into heat energy in a power plant
- B) the generation of wastes as a byproduct of human consumption
- C) the release of heat into the atmosphere
- D) the recycling of materials generated by human consumption

Answer: <https://biology-forums.com/index.php?topic=258082>

Question 20

The main problem with constructing new landfills in the United States is that

- A) nobody wants one built near them.
- B) the cost of building a new landfill is too expensive.
- C) the costs of running a new landfill are too expensive.
- D) once a region has a landfill, it cannot be used for anything else.

Answer: <https://biology-forums.com/index.php?topic=257101>