

Question 1

Organizations like OPEC have formed _____.

- A) in order to take maximum advantage of developed nations dependence on imported oil
- B) to develop technologies to conserve non-renewable energy resources
- C) to protect their national members' petroleum reserves for their own use
- D) as a military alliance to protect developed nations' energy reserves
- E) to ensure that developing nations get their fair share of fossil fuels

Answer: <https://biology-forums.com/index.php?topic=257608>

Question 2

Artificial wetlands _____.

- A) are the major program for replacing lost natural wetlands
- B) purify water for use as bottled drinking water
- C) are a source of arsenic contamination in Bangladesh
- D) are created using xeriscaping methods
- E) can help purify water and also provide recreational opportunities

Answer: <https://biology-forums.com/index.php?topic=257457>

Question 3

Which of the following best describes integrated pest management (IPM)?

- A) biocontrol measures, crop rotation, habitat diversification
- B) major reliance on synthetic pesticides
- C) subsidies for pesticide use
- D) continuous monoculture cropping and harvesting
- E) transgenic crops

Answer: <https://biology-forums.com/index.php?topic=256997>

Question 4

Sinkholes can occur when _____.

- A) too much weight above an aquifer causes it to cave in
- B) the water level in an aquifer rises, pushing through to the surface
- C) the water in an artesian aquifer is under sufficient pressure that it breaks through to the surface
- D) excessive water use lowers a water table and weakens the substrate
- E) nonconsumptive use lowers an aquifer

Answer: <https://biology-forums.com/index.php?topic=257497>

Question 5

A population in the post-industrial stage would be expected to have _____.

- A) birth and death rates at low stable levels
- B) population size, birth rates and death rates rising
- C) an age-distribution diagram that is pyramidal with a broad base
- D) a sex ratio skewed in favor of females
- E) lower birth rates but much higher death rates and environmental impact

Answer: <https://biology-forums.com/index.php?topic=256916>

Question 6

Advances in agriculture _____.

- A) did not increase the amount of food per person from a global perspective
- B) do not rely on ecosystem services
- C) are always sustainable, since they are based on natural ecosystems
- D) have resulted in a smaller global population
- E) have often resulted in alteration and destruction of natural systems

Answer: <https://biology-forums.com/index.php?topic=256440>

Question 7

Ultimately, all biofuels are _____, because they are the result of _____.

- A) geological; sedimentation
- B) solar; photosynthesis
- C) inefficient; decomposition by microorganisms

- D) synthetic; chemical manipulation of hydrocarbons
- E) polymers; biological metabolic processes

Answer: <https://biology-forums.com/index.php?topic=257659>

Question 8

Upwelling _____.

- A) occurs in areas where there are no currents
- B) is the flow of warm water upward toward the ocean surface
- C) occurs when winds blow at right angles to a coastline
- D) brings benthic nutrients to the ocean surface promoting high primary productivity
- E) transports oxygen from deep to surface waters

Answer: <https://biology-forums.com/index.php?topic=257448>

Question 9

If reducing waste can increase efficiency, why is the output of industrial waste still so great? What is the application of industrial ecology and life-cycle analysis to these problems?

Answer: <https://biology-forums.com/index.php?topic=257711>

Question 10

Explain how human health may suffer or benefit from global climate change.

Answer: <https://biology-forums.com/index.php?topic=257580>

Question 11

The IUCN's Red List is _____.

- A) an updated list of species facing unusually high risk of extinction
- B) a list of unidentified species
- C) a list of ecologically damaged ecosystems
- D) an identification list of known species
- E) a scorecard of international failures at conservation

Answer: <https://biology-forums.com/index.php?topic=257084>

Question 12

A migratory bat species pollinates agave plants in northern Mexico on its way to the southwestern United States where it spends the summer eating insects and reproducing. Farmers spraying pesticides affect these bats, which eat the insects and also feed them to the baby bats. This could be the start of a story about _____.

- A) sustainable agriculture
- B) an extirpation
- C) an umbrella species
- D) insect biodiversity
- E) threats to a keystone species

Answer: <https://biology-forums.com/index.php?topic=257107>

Question 13

How can scientists learn about climatic history?

Answer: <https://biology-forums.com/index.php?topic=257578>

Question 14

A population's age structure generally _____.

- A) has no inherent value for predicting growth
- B) cannot predict possible species declines in numbers
- C) will represent sizes of individual organisms
- D) indicates the numbers (frequency, or percentage) of individuals in each age class
- E) is correlated with the different niches the population occupies

Answer: <https://biology-forums.com/index.php?topic=256633>

Question 15

_____ strongly influences the amount of energy generated from hydropower.

- A) The temperature of reservoir water
- B) Latitude

- C) The phase of the moon
- D) The volume of water released and the height of the fall
- E) the temperature of water in the boiler and turbine

Answer: <https://biology-forums.com/index.php?topic=257639>

Question 16

Differentiate between environmental science and environmentalism. Define each term and explain how they are similar and how they differ.

Answer: <https://biology-forums.com/index.php?topic=256506>

Question 17

Replacement fertility _____.

- A) restores population size after a catastrophic event
- B) is a contraceptive technique
- C) is below 2 in Latin America and the Caribbean
- D) is below 2 in Africa
- E) is equal to 2.1 in stable populations

Answer: <https://biology-forums.com/index.php?topic=256891>

Question 18

Briefly explain the overall processes of photosynthesis and cellular respiration. Include a brief explanation of autotrophs and heterotrophs in your answer.

Answer: <https://biology-forums.com/index.php?topic=256593>

Question 19

Why is indoor pollution still such a large problem? What are the most dangerous indoor pollutants in developing and developed nations?

Answer: <https://biology-forums.com/index.php?topic=257539>

Question 20

Briefly describe what is meant by a pioneer species.

Answer: <https://biology-forums.com/index.php?topic=256773>