

When you have completed your exam and reviewed your answers, click **Submit Exam**. Answers will not be recorded until you hit **Submit Exam**. If you need to exit before completing the exam, click **Cancel Exam**.

**Questions 1 to 20:** Select the best answer to each question. Note that a question and its answers may be split across a page break, so be sure that you have seen the *entire* question and *all* the answers before choosing an answer.

**1.** Among human populations, the primary use of fresh water is for

- A. flushing toilets.
- B. drinking and cooking.
- C. agriculture and industry.
- D. energy.

**2.** Which of the following is a renewable resource?

- A. Minerals
- B. Wind
- C. Fossil fuels
- D. Land

**3.** Which of the following factors will have a greater impact on a population as the density of that population increases?

- A. Weather
- B. Natural disaster
- C. Climate
- D. Predation

**4.** Which of the following was one result of the Green Revolution?

- A. The conservation of topsoil
- B. An increased reliance on polyculture agriculture
- C. The protection of species diversity
- D. An increase in the yield of crops for less-developed countries

**5.** Which one of the following interspecies relationships has a negative effect on both species?

- A. Parasitism
- B. Competition
- C. Predation
- D. Commensalism

**6.** The life history pattern in which population growth is logistic is called

**A.** opportunistic pattern.

**B.** biotic potential.

**C.** equilibrium pattern.

**D.** population density.

**7.** Study the following food chain: *grass* → *rabbits* → *snakes* → *hawks*. From this chain, you can correctly assume that each population

**A.** is a carnivore.

**B.** supports the next trophic level.

**C.** is always larger than the one before it.

**D.** is a species of herbivore.

**8.** The process of chemical cycling is known as a biogeochemical cycle because it

**A.** takes place over a long period of time.

**B.** involves both living and nonliving components.

**C.** absorbs the chemical involved from the sediment.

**D.** withdraws the chemical from the atmosphere as a gas.

**9.** A source from which organisms generally take elements is called a/an

**A.** biotic community.

**B.** reservoir.

**C.** food web.

**D.** exchange pool.

**10.** If the birthrate is 10 per 1,000 and the death rate is 10 per 1,000, then the growth rate is

**A.** 20%.

**B.** 0%.

**C.** 10%

**D.** 100%.

**11.** Which of the following examples of an ecological study involves the ecosystem level of organization?

**A.** The effects of a disease on population size

**B.** The effects of human activities on biogeochemical cycling

**C.** The effects of competition on survival

**D.** The effects of an invasive plant species on bird nesting sites

**12.** During exponential growth, the rate of growth

**A.** remains steady over time.

**B.** starts slowly and then accelerates.

**C.** declines consistently over time.

**D.** starts quickly and then levels off.

**13.** Which one of the following pollutants is responsible for the increase in skin cancer?

- A. Polychlorinated hydrocarbons
- B. Nitric oxide
- C. Chlorofluorocarbons
- D. Chlorine monoxide from automobiles

14. A complex of interconnected food chains in an ecosystem is called a/an

- A. ecological pyramid.
- B. trophic stack.
- C. food web.
- D. ecosystem.

15. Which of the following *doesn't* describe an MDC?

- A. It has undergone the demographic transition.
- B. Its age structure diagram resembles a pyramid.
- C. It generally experiences replacement reproduction.
- D. It's highly industrialized.

16. Which one of the following conditions is an example of resource partitioning?

- A. Two species of birds that eat fruit from the same tree
- B. Two species of squirrels—one that eats acorns from the branches and one that eats acorns that have fallen to the ground
- C. A species of butterfly and a species of bee that pollinate the same flower
- D. Two species of mice—one that eats seeds and the other that eats insects

17. The *most* common cause of desertification is

- A. overgrazing.
- B. the construction of dams.
- C. drought.
- D. mining.

18. Which one of the following phrases describes many countries within Asia and Africa?

- A. MDCs experiencing slow population growth
- B. MDCs experiencing rapid population growth
- C. LDCs experiencing rapid population growth
- D. LDCs experiencing slow population growth

19. In which of the following relationships do both species benefit?

- A. Mutualism
- B. Commensalism
- C. Parasitism
- D. Competition

20. Modern fishing practices threaten biodiversity mainly through the

- A.** removal of community food supplies.
  - B.** accidental capture of unwanted species.
  - C.** chemical poisoning of the water.
  - D.** physical destruction of marine habitats.
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End of exam