

① Which ecological level of organization is directly below ecosystems?

①

- biosphere
- population
- community
- biome

② In an ecosystem, living things are considered to be what kind of factor?

①

- biotic
- abiotic

③ Which part of an ecosystem would geologic formations be?

①

- abiotic
- biotic

④ Which measurement of an ecosystem tells us how much biomass is being produced?

①

- carrying capacity
- primary productivity

⑤ Which kind of linear map allows us to trace the production and consumption of biomass from organism to organism?

①

- food chain
- food web

⑥ How do we structure a food chain to show which organisms are producing or consuming?

①

- taxons
- levels of organization
- trophic levels

⑦ Primary productivity is performed by the which trophic level of an ecosystem?

①

- primary consumers
- secondary producers
- primary producers
- secondary consumers

⑧ Which trophic level are organisms that eat the primary producers?

①

- secondary producers
- secondary consumers

- primary consumers
- primary producers

9 Which trophic level is smelt in the chain of algae, amphipods, smelt, and salmon?

1

- secondary consumers
- primary consumers
- secondary producer
- tertiary consumers

10 Which trophic level are organisms that eat secondary consumers?

1

- tertiary consumer
- primary consumers
- primary producer
- secondary consumer

11 What kind of branched energy flow map shows all of the interconnected production and consumption within the ecosystem?

1

- food web
- food chain

⑫ What kind of population growth can occur when resources are not limited?

①

- density-dependent growth
- logistic growth
- exponential growth

⑬ What kind of population growth occurs when resources are limited?

①

- exponential growth
- logistic growth

⑭ What kind of limit to population growth would competition within the population be considered?

①

- density-independent
- density-dependent

⑮ What type of limit to population growth would a natural disaster be?

①

- density-dependent
- density-independent

16 In a population growth curve, what type of growth is seen with the rapid increase population, creating a steep curve?

1

- density-dependent growth
- logistic growth
- exponential growth

17 In a population growth curve, what type of growth has been reached when the curve levels off?

1

- exponential growth
- logistic growth

18 Which limit to population growth is the maximum population size that the environment can support?

1

- exponential growth
- primary productivity
- carrying capacity

19 Which ecological relationship will limit growth in a population if more than one species relies on the same resources, like land and food, as another?

1

- commensalism
- competition

- predation
- mutualism

20 What is the ecological relationship between the wolves and the elk in the example?

1

- competition
- commensalism
- predation
- parasitism

21 When predator and prey populations exist in the same ecosystem, the population growth of both species will _____ over time.

1

- equilibrate
- grow
- decline

22 What kind of limiting factor of population growth would predation be?

1

- density-dependent
- density-independent

23 What molecule are human producing on a massive level that is causing global temperatures to rise?

1

- oxygen
- carbon dioxide
- water

24 In the food chain example, of whitebark pine, squirrels, and grizzly bears, which represents the primary producer?

1

- squirrels
- grizzly bears
- whitebark pine

25 Since the Whitebark pine only grows in cooler climate elevations, what will happen to the habitat as the global climate warms?

1

- no change
- increase habitat
- decrease habitat

26 If climate change decreases the habitat of the Whitebark pine, what will likely happen to the consumers that rely on the pine?

1

- population decline
- population growth
- no change