

Quiz 1

Share Questions + Answers (Only if 100% Sure). Discuss Questions/Answers. Remember We Get 3 Attempts So We Can Help Each Other Score 20/20 By Attempt Three!!

1. Canada's population density is? ---> 0.04/hectare i believe
2. Which of the following is not an auxiliary energy flow?
 - a) gasoline
 - b) sun
 - c) fertilizer
 - d) pesticide <--i think it's this am i right?

1. 20% of the world's population consumes 75% of world's resources
2. Loon's affinity for pH? **4.5**
3. In the story of stuff, what liquid hamention the seafood industry consumer demand declining, so maybe you can say something about how people won't have access to seafood which is a major protein source and has a lot of health benefits?
4. s the most contaminated with "toxics" present within the natural kingdom? **Human Breast Milk**
5. The eight millennium development goals adopted by the UN do not? **gender disparity**
6. Canadians are among the top per capita producers globally of **ALL OF THE ABOVE**
7. Mutualism is relationship which is **beneficial to both parties**
8. Ecosystem change can be caused by **ALL OF THE ABOVE**
9. The process by which plant biomass is converted to NH₃ and NH₄ is called **Nitrification**
10. Smallest particles that still exhibit characteristics of an element are called **Atoms**
11. Largest reservoir of water on earth is **the ocean**
12. According to story of stuff, how much pollution is released every year by industries? **4,000,000,000 lbs**
13. According to story of stuff, how much of the world's natural resources have been consumed in the past three decades? **One-third**
14. How many synthetic chemicals currently in use have been tested for their synergistic impacts, according to story of stuff? **0%who**
15. How many advertisements per day are U.S citizen exposed to on average? **Over 3000**
16. The amount of biologically productive area available to meet humanity's needs is called its **biocapacity**
17. Photosynthesis requires **ALL OF THE ABOVE**
18. Organisms that can capture energy directly to create matter are called **autotrophs**
19. When organic waste are added to a body of water **Oxygen levels fall**
20. Which of the great lakes is infamous for having been highly eutrophic? **Lake Erie**
21. Water is a compound made up of **Two hydrogen atoms and one oxygen atom**
22. Which of these is a goal of distribution? **Keep the people buying**
23. 4% of America's original forests are left

24. Tapeworms, ticks, lamprey, mistletoe examples of? **Parasites**

25. Rapid evolution of species

Contemporary evolution

26. The richer zones that occur between communities and have the highest species diversity are known as: **ecotones**

27. The amount of water impounded behind dams has ____ 1960: **quadrupled**

28. Chemoautotrophs and phototrophs are both ____: **producers**

29. The belief that ecosystem components have intrinsic value is ____: **ecocentric view**

30. A synergistic relationship occurs when ____: **each party benefits from the other**

I don't think this is right: ----> Answer is creation of a whole that is greater than the simple sum of its parts

Synergism (Biology). synergism The interaction of two or more agents or forces so that their combined effect is greater than the sum of their individual effects

Should be: two or more separate entities together are greater than the sum of the individuals.

31. Evapotranspiration is part of the ____: **hydrological cycle**

32. Which soil type covers the greatest area in Canada? **Its Cryosolic (textbook page 64)**

33. Which of the following describes the series of steps leading to the lifecycle of goods?

Materials Economy

34. The theoretical final stage in the successional process is called a ____: **Climax community**

35. The energy from the sun is called ____ energy **RADIANT**

36. Which concept describes the fact that the actual cost of making goods is not captured in their price? **Externalization**

37. WWF living planet index shows a 35% overall reduction in ____ since 1970 **reptiles**

---> Is it not overall Health of Earth?

38. Which of the following is NOT an example of perceived obsolescence? **Recycling**

39. Life in Earth's oceans originated ____ years ago, and came onto land ____ years ago: **3.5 billion; 450 million**

40. According to the Federation of Canadian Municipalities, how big is the average Canadian urban ecological footprint? **1.8 hectares**

41. Serpentine is a type of ____: **Bedrock**

42. When research goal seeks a holistic understanding that transcends disciplinary boundaries, the research approach used is _____. **transdisciplinary (i think it is)**

43. Disruption of biogeochemical cycles can cause ____: **All of the above**

44. The layer of Earth's atmosphere that contains the ozone that blocks out most of the sun's radiation is called the ____: **stratosphere (i think)- correct**

45. Atmospheric sulphur often comes from ____: **All of the above (I think)**

46. The largest atmospheric constituent is ____: **Nitrogen**

47. According to the story of stuff, what defines the identity of American citizens? **Their consumption**

48. Extreme poverty can be defined as a condition where ____ **\$2.00 per day**

49. Density dependent organism growth rate? **S-curve**
50. which of these step of lifecycle of good produce the most waste: **Production**
51. every year ___people on earth die due to absolute poverty **8 million**
52. how much energy is lost as it is converted from solar energy to chemical energy stored in producer as biomass? **97%-99% I think, yes this correct**
53. Sitka black-tailed deer were deliberately introduced to: **Control vegetation**
54. Which of the following describes the series of steps leading to the lifecycle of goods?:
Materials economy
55. Economist... **Lebow**
56. Who is most exposed...**babies**
57. Which of the following is not an r-strategist? **Dolphin**
58. What is Rhizobia? **Nitrogen fixing bacteria**
59. As energy flows through ecosystems, what happens to entropy? **It increases**
60. According to the story of stuff, how much of the United States' waterways are now undrinkable? **40%**
61. According to the story of stuff, what was the core social value of American society 50 years ago, in contrast to nowadays? **Stewardship**
62. Inertia is ____: **the ability of an ecosystem to withstand changes**
63. The principle that tells us that there is always a decrease in usable energy when it is transformed from one form to another is described as ____: **the second law of thermodynamics**
64. 20 kilograms per hectare is the ____ for acid deposition in Canada: **PTV (policy target value)**
65. Your ecological footprint is defined as the land and sea based required to ____ **both of the above**
66. Environmental indicators are used to ____: **All of the above**
67. Which of the Great Lakes is infamous for having been highly eutrophic? **Lake Erie**
68. Which of the following is a population growth factor? **All of the above**
69. A species is extirpated when it: **is locally extinct**
70. An example of a non-source of pollution would be: **runoff from agriculture land**
71. According to the story of stuff, how much of the world's resources is the population of the United States using? **30%**
72. The competitive exclusion principle tells us that ____: **no two species can occupy the same niche in the same area**
73. The law of conservation of matter tells us that: **All of the above**
74. Coevolution occurs when ____: **Changes in one species cause changes to occur in another species**

What percent of species in Canada are alien? 5% of mammal species and 27% of vascular plant species (**12% Total**)

18/20 Scored From The Below: (Highlighted Unsure if Correct/Incorrect)

1. Compared to thirty years ago, how much garbage per day is produced by an average American? **Twice As Much**
2. In the Story of Stuff, what liquid is the most contaminated with toxins present within the natural kingdom? **Breast Milk**
3. Which of the following is NOT part of the new way of thinking about the lifecycle of goods? **Global Living Economist -- (consumerism is the answer)**
4. According to the Story of Stuff, how much of the world's global fishery are fished at or beyond the capacity? **75%**
5. Population pyramids provide information about? ----> **All of the Above**
6. Economic growth and a correlated drop in population growth is called **Demographic Transition**
7. The richest _____ of global population consumers over _____ of resources used on Earth. **20% and 75%**
8. The Constitutional Act of 1867 gave the provinces control over _____ **All of the Above**
9. Common characteristics of living organisms? **All of the Above**
10. Which of the following are not a specialist species **White-Tailed Deer**
11. Net community productivity (NCP) **Autotrophic and Heterotrophic**
12. _____ has same trophic level as an Arctic flower **Tree**
13. Polar amplification will lead to **Greater Snow Melt**
14. K-Strategists **Produce few offspring**
15. r-Strategists **Develop Quickly**
16. The Cambrian era is known for Flourishing _____. **Multicellular Species**
17. An underground formation of loose materials may be _____ **An Aquifer**
18. Which of the following is NOT a major macronutrient **Lead**
19. When organic wastes are added to a body of water _____ **Oxygen Level Falls**
20. Common loons need lakewater with a pH of at least _____ to find enough food for their young. **4.5**

Questions Not Yet Answered: can you provide the options?

- Rapid evolution of species in response to human activity is called? (a. Adaptive radiation b. Natural selection c. co-evolution d. Contemporary evolution)
- Areas where underlying geology is more important than climate in determining plant cover are _____ (a. Fire driven b. Detritally driven c. rainfall driven d. Edaphically driven)
- Allelopathic species _____ **answer is they inhibit chemicals**
- new species are formed when a part of a population adapts to a new food source:
a. Adaptive radiation b. Genetic radiation c. co-evolution (i think) (co-evolution is due to a **genetic** change, so I think it's a) d. Contemporary evolution
- Which of the following best describes the traditional type of systems to the product of goods? (a. Systemic b. Circular (i think) c. Logarithmic d. Linear)
- A country with a fertility rate of 2.0 will theoretically have _____ (a. High infant mortality b. population decline c. population stability (*i think?*) d. Population growth)

The sea otter was extirpated from BC coast due to: (a. Habitat loss (*i think*) b. Predation by killer whales c. overhunting d. disease)

- Over 80 per cent of terrestrial plant biomass is consumed by ____: (a. Herbivores b. Omnivores b. Detrivers d. Tertiary consumers)
- As the number of population increases, the number of hectares available per person will ____: (a. Decrease in area but improve in quality b. Increase c. remain the same d. decrease)
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Other Questions:

1. Acid deposition is mainly due to human interference in the ____? **Sulfur and nitrogen cycles**
2. GNP stands for? **Gross National Product**
3. as the human population increases, the number of hectares available per person will? **decrease** , remain the same, increase, decrease in area but improve in quality

To ensure that many disciplinary specialists are included in research from the outset to better understand complex environmental systems we should thrive to use _____ approaches.

- a) Cross and Trans Boundary
- b) Disciplinary and Cross Disciplinary
- c) Interdisciplinary and trans disciplinary**
- d) Disciplinary and Multidisciplinary

- Extreme poverty can be defined as a condition where ____ (live on less than
- a. \$0.75 per day
 - b. \$2.00 per day** (answer already above)
 - c. \$5.00 per day
 - d. \$1.00 per day

*****Constant bombardment of early Earth Nutrient rich seas by solar energy creates ____.

- a) Amino Acids
- b) Bacteria
- c) Proteins
- d) DNA

Theoretic final stage in the successional process is called a _____

- a) Disturbance
- b) Seral Stage
- c) Secondary Community
- d) **Climax Community (answer already above)**

*****Of Earth's 92 natural occurring elements:

- a) 3 are required in large amounts by living organisms
- 10 accounts for 97% of mass of all living orgy
- b) 12 are required for plant and animal life
 - c) Approx. 30 are necessary for all living things

One way science can try to understand complexity of natural systems is by use of: simplified models is the answer, got 20/20

20 kilograms per hectare is the _____ for acid deposition in Canada

- a) PTC (Political Target Value)
- b) PVT (Policy Value Target)
- c) **PTV (Policy Target Value)**
- d) STC (Scientific Target Value)

21. Ecosystems with ____ can best withstand human interference without experiencing serious damage

- a. High inertia and low resilience
- b. Low inertia and low resilience
- c. **High inertia and high resilience**
- d. Low inertia and high resilience

22. In Canada, acid shock is seen most often _____

- a. In the fall
- b. Summer
- c. Winter
- d. **Spring**

23. The principle that tells us there is a decrease in usable energy- **1st law of thermodynamics**

24. Atlantic Puffin.... **Capelin**

25. **Earth's**

26. What are the potential health impacts of BFRs? **Neurotoxicity**

27. Many aquatic invasive species are introduced _____. **In ballast water**

28. Who is most exposed to high doses of toxic chemicals in the human population, according to the story of stuff?

29.