



1. Humans have come to replace apex predators in what can be called:
  - a) a food supply
  - b) a chain of food
  - c) a trophic ladder
  - d) hunter gatherers
  - e) sedentary nomads
2. Primary consumers are herbivores, **True or False?**
3. The Gulf of Mexico at the Mississippi Delta has declined in its environmental quality due to (which one is not)
  - a) sediment plumes from the Mississippi River discharge
  - b) Nitrogen fertilizer waste from upstream agriculture
  - c) offshore oil and gas spills
  - d) excessive environmental regulations
  - e) hypoxia, or “dead zones” and algal blooms
4. A drainage basin for any river is also called
  - a) an aquifer
  - b) a floodplain
  - c) a lakebed
  - d) a tributary
  - e) a watershed
5. The first domestication of plants and animals 10,500 yrs BP took place in
  - a) China
  - b) the Andes
  - c) the Near East
  - d) the Nile
  - e) Mesoamerica
6. Among the “changes on the land” that took place in New England between 1620 and 1830, the consequence with the highest cost is:
  - a) much higher use of materials and food
  - b) higher densities of animals
  - c) habitats favoring weeds, pests and disease with introduced species
  - d) overgrazed land
  - e) depleted soils
7. The price of a barrel of oil over time shows it to be relatively stable since 1973. **True or False?**
8. A map distorted to show the relative ecological footprint of a country’s population rather than its size is an example of a way to use mapping software to show differences between countries. This are called:
  - a) an asymptote
  - b) a climograph
  - c) a cartogram
  - d) a topomap
  - e) an infographic
9. The concept of planetary “overshoot” refers to
  - a) the colonization of other planets
  - b) a failed space probe
  - c) a moment when human consumption on earth exceeds the biocapacity of the planet
  - d) a period of high prices for resources
  - e) an overestimate in predictability
10. When comparing the relative ecological footprint of select countries what stands out is that India and China have a footprint smaller than the world average respectively. **True or False?**



11. The basic materials needed for a good life come from the provisioning aspects of the biosphere. But these are the most determined by socioeconomic factors. They include:
- a) adequate livelihoods
  - b) sufficient nutritious food
  - c) shelter
  - d) access to goods
  - e) all of the above.
12. The drying up of the Aral Sea is a consequence of
- a) a long drought
  - b) desertification
  - c) sinkholes
  - d) freshwater upstream diversion for export agriculture
  - e) earthquake fault zones
13. From figure 6.5 in Lee et al (p. 152) one can say that humans have... (all but one of these)
- a) brought more species into existence.
  - b) added almost 60% of the world's N<sub>2</sub> fixation
  - c) fully exploited, overexploited or depleted 70% of the world's marine fisheries.
  - d) commanded over half of the available freshwater
  - e) added over 20% of the concentrations of CO<sub>2</sub> in the atmosphere
14. In today's world, access to water is not a right.  
**True or False?**
15. The biggest killers of children in the developing world are
- a) HIV-AIDS
  - b) malnutrition
  - c) water borne diseases.
  - d) epidemics
  - e) war and displacement
16. The "privatization" of water has led to
- a) higher rates for customers
  - b) profit-seeking corporations to acquire local publically owned water companies
  - c) riots in some countries
  - d) extreme concentration in the "industry"
  - e) all of the above
17. What percent of the world's water is found in the oceans?
- a) 50
  - b) 65
  - c) 75
  - d) 85
  - e) 97
18. Desalination remains an elusive source of drinking water because
- a) it tastes bad
  - b) we don't know what to do with the salt
  - c) it takes tremendous amounts of fossil fuel energy to "desal" water
  - d) the technology has rarely been tried
  - e) none of the above.
19. By transporting water from one basin to another, human engineering has altered
- a) the hydrologic cycle
  - b) the nitrogen cycle
  - c) the carbon cycle
  - d) the phosphorous cycle
  - e) none of the above.
20. Which one is NOT a major water corporation?
- a) Vivendi
  - b) Nestlé
  - c) Thames
  - d) Exxon
  - e) Suez