

For 5pts. additional credit on your Quiz #2, the following questions were missed by more than 50% of the class, thereby requiring more study in the following areas.

Take each question, find the relevant information to support the correct answer, write the proper answer in brief. Define each of the other possible answers and reference the location upon where you found each answer (this should be book or class notes only).

4. Introduced plants are capable of invading areas at a rapid rate, especially ocean islands. What is this called? (a. *invasive plants*, b. *ecological succession*, or c. *ecological explosion*).

8. What geographic region is where most of the living species on planet Earth are found? (a. *equator*, b. *horse latitudes*, c. *30 degrees N & S of the equator*)

9. Ecological succession is a natural process. What does it mean? (a. *change is necessary*, b. *a response to abiotic organisms*)

15. According to the _____, there are maximum and minimum limits for physical conditions and concentrations of substances beyond which no members of a particular species can survive (a. *first law of thermodynamics*, b. *law of conservation of mass*, c. *the limiting factor principle*, d. *law of tolerance*)

23. Biologists estimate that _____ of the species that ever existed are now extinct. (a. *10%*, b. *50%*, c. *25%*, d. *99%*) *in this case you do not need to define each of the percentages just find the correct answer, define it, and reference*

31. Speciation - extinction = ? (a. *biodiversity*, b. *natural selection*, c. *mutation*, d. *adaptation*) *this question says speciation must be ahead of extinction so you must define also speciation and extinction here in order to understand the question*.

32. Natural extinction Scenario: Volcano explodes, Dust particles obscure incoming solar radiation, No photosynthesis, then what? (a. *background extinction*, b. *no producers*, c. *ice age*, d. *global warming*) *(you must define natural extinction and photosynthesis here in order to understand the question)*

37 & 39 generalist or specialist *(please define why both the gorilla and the human are generalists. You may not find specific answers in the book or notes, so you will need to go to an outside source, make sure it is credible).*