

**Biology 182: Huxman-Schaffer Section
In-Class Quiz 4/12/2007.**

Answer three (3) of the following questions. Multiple choice questions may more than one correct answer, in which case you must circle all of them to receive full credit.

1. In terrestrial ecosystems, the majority of nutrients on the soil surface derive from

- a. the mineral soil and microbes.
- b. dust and aeolian deposition.
- c. decomposing litter from dominant plants.**
- d. organic detransformation.
- e. none of the above.

NB. There was one correct answer. Papers with two or more answers circled received no points, regardless of whether or not one was correct.

2. The three principal types of blood cells in vertebrate blood are

- a. Erythrocytes (RBC);**
- b. Leukocytes (WBC);**
- c. Thrombocytes (platelets).**

3. In which of the following animals would you expect to find elongated loops of Henle?

- a. Domestic cows.
- b. Freshwater fishes.
- c. Gerbils of the Mongolian desert.**
- d. Leopards of the Indian jungle.
- e. Polar bears from the Canadian north.

4. Tyrannosaur survivorship curves are

- a. type I
- b. intermediate between type I and type II**
- c. type II
- d. intermediate between type II and type III
- e. type III

5. The earth's albedo is

- a. the fraction of incident solar radiation absorbed by the earth and its atmosphere.
- b. the fraction of incident solar radiation reflected back into space before it warms the earth.**
- c. the fraction of incident solar radiation re-radiated into space as heat.
- d. higher at the equator than at the poles.
- e. higher at the poles than at the equator**

NB. There were two correct answers. Answering b. and e. earned full credit; b. or e. and no other answers, 2.5 points; b., e. and a third, incorrect answer, 2.5 points and b., e. and two or more incorrect answers, zero points.