

Overabundant Animal Populations **Name** _____

(Textbook p. 202-205 answer questions below)

- a) What can cause overabundant populations?

- b) What are the effects of overabundant populations?

- c) List 3 examples of overabundant populations.

- d) If humans are responsible for environmental changes that cause increases in the populations of native species, under what conditions should we work to reverse these populations increases?

- e) What are some options for controlling overabundant populations? What is Beachwood doing?
[http://www.cleveland.com/beachwood/index.ssf/2013/02/beachwood_has_few_answers_for.html and <http://www.beachwoodohio.com/index.aspx?NID=425>]

f) How might the options to control overabundant populations differ in rural versus urban areas?

g) Consider a region of temperate forest that contains 100,000 deer with a sex ratio of 3 females to 1 male, an infant mortality rate of 10, a crude birthrate of 40, and a crude death rate of 20. Only 10% of the females are able to reproduce. Calculate the population growth rate of white-tailed deer in this region. Calculate the number of deer that hunters would need to shoot in order to keep the deer population stable. (Hint: there is extraneous information)