

Dr. McGraw's portion of the 2009 final exam

Comprehensive part:

- 1) 15 questions, none exactly the same as the midterms.
- 2) Expect another linked set of problems on exponential population growth (you will be expected to know the equations).
- 3) Expect a mark-recapture problem (you will be expected to know the equation).
- 4) Expect questions testing your vocabulary (e.g., what does 'life expectancy' mean?) from the 3<sup>rd</sup> quarter of the course.
- 5) Expect questions testing concepts (e.g., what does the notion of character displacement imply for observations about two species in zones of sympatry?) learned in the 3<sup>rd</sup> quarter of the course.
- 6) There will be no more numerical problems on logistic, competition, demography/age-specific population growth, or predator-prey.
- 7) Expect 7 or 8 more questions on evolution and conservation biology (you'll be studying that for the midterm portion).

Midterm part:

- 1) 30 questions
- 2) This is another midterm, focusing on lectures from Monday before the last exam to the last lecture.
- 3) You will need to know the Hardy-Weinberg Law equations and the allele frequency-genotype frequency equation.
- 4) All other needed equations will be provided, but you must know what the variables mean and how to use the equations.
- 5) Use problem sets on the web site for practice.
- 6) Use video review session to help study.