

Bio 213 — Evolution — Study Guide for Test 2 Winter 1998

A. General Information - see "Rules For Test Taking" on study guide for Test 1 (available on web)

B. Structure of the test:

1. There will be 4 problems, 2 worth 14 points and 2 worth 15 points, to solve, along with some objective or short-answer questions.
2. BRING A CALCULATOR.
3. The 4 problems will be from among the following:
 - a. test a population for being in the Hardy-Weinberg genotypic frequencies
 - b. derive and solve the recurrence equation for a recessive lethal
 - c. interpret a complex Δq graph
 - d. graphically and algebraically derive the recurrence equation for migration
 - e. graphically derive the equation for heritability
5. There will also be some 14 objective-type questions, each worth 3 points, from the chapter summary points. Two questions will be from each chapter's summary assigned summary points (see below).

C. How to Study

1. Study your lecture notes — try to get the main principles that were covered firmly in mind. Look at the old tests available on the web and **PRACTICE THE PROBLEMS** you will be given on this test.
2. Read all the assigned chapters. First read the summary. Then read the text. Then reread the summary. Write 2-3 **paragraphs** summarizing the chapter in your own words, and write one paragraph expanding one of the summary sentences to a full paragraph with some details.
3. Study with a partner. Ask each other questions from lecture, and ask each other questions about the summary sentences from each chapter.
4. PRACTICE THE PROBLEMS.

II. What to Study

A. Lectures

- a. know the lecture notes (available on line in .pdf format)
- b. know how to do the problems that may be on the test.

B. Book

- a. read Chapters 4, 5, 9, 10, 11, 12, & 13.
- b. Chapter summary points you are responsible for:
Chapter 4: all of them; Chapter 5: 1-4 + 7-12; Chapter 9: 1-6 + 8; Chapter 10: 1-3 + 8 + 13; Chapter 11: 1-10 + 11 + 13; Chapter 12: 1 + 5- 6 + 7-11; Chapter 13: 1-8 + 12.