Earlier Chapters:

meiosis problem from first exam

Homology, vs analogous, fins and whales fins and hands

Linkage disequilibrium

QTL mapping

h2 equation problems

evolution of sex, why, adv and disadv, Mueller’s ratchet

why is loss of heterozygosity a concern

explain difference between relatedness and inbreeding

 why is DNA considered a synapomorphy vs. pesiomorhpy

DN/DS

Frequency dependent selection

co-option

irreducible complexity

Explain species concepts, give examples of each

Difference between diagnostic and PSC and problems with PSC (the same)

BSC

Rhagolitis examples

Vicariance vs allopatry

prezygotic isolation in sympatry vs none in allopatry, role of sexual selection

Phlox story, Hawaian drosophilia

What are independent contrasts and how do you do them (use test example)

Kin Selection what is direct vs indirect fitness

explain how to calculate relatedness

how does altruism benefit donor, go over Br- C > 0

siblicide, how adv.

inclusive fitness and menopause

haplodiploidy, any example

Disease:

explain expt about resistance and tradeoff with competitve ability, transmission mode and virulence

Evolutionary theories of aging, tradeoff vs relaxed selection, oppossom example and explain

Life time Reproductive Success, life tables

use of antibiotics

menopause and inclusive fitness