
Environmental Biology – Exam 2 Study Guide Fall 2022

Exam things:

- Open-note, open-book no lockdown browser, through Folio
- 75 minutes to take it, 1 attempt
- *Cumulative*, but weighted toward new material (25%:75% old: new)
- 25 total questions (100 total points)
 - 6 short answers (5 pts each)
 - 11 Multiple choice/matching (4 pts each)
 - 6 fill-in-the-blank (3 pts each)
 - 2 equation usage (4 pts each)
- Some of the multiple choice/matching/fill-in-the-blank will be taken from in-class questions, but not all
- Short answer questions are just that, *short* answers, 2-3 sentences on average. Lists are okay if the question calls for it.
- Equations will be provided

Key Concepts:

- Population ecology
 - What is a population?
 - Population range, density, and distribution
 - Clumped, random and uniform distributions
 - Population Abundance
 - Minimum viable population
 - Population dynamics
 - Population size this year = population size last year + births + immigrants - deaths - emigrants
 - Factors affecting these dynamics
 - Exponential vs Logistic growth
 - Carrying capacity and limiting factors
 - Density-dependent vs independent factors
 - *r*- and *K*-selected species traits and dynamics
- Community ecology
 - What is a community?
 - Species richness and diversity
 - Food webs and trophic pyramids
 - Rule of 10⁻ energy/stuff lost between trophic levels
 - Productivity
 - Habitat vs niche
 - Habitat diversity, impact on species diversity
 - Habitat simplification
 - Symbioses and

Environmental Biology Study Guide Answers

CL Gary



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