

Study Guide Final Exam – EVOLUTIONARY ECOLOGY

Previous material:

Major evolutionary transitions (Chapter 2)

Major ecological transitions (Chapter 3)

Life history evolution (Chapter 4)

Sex allocation (Chapter 5)

Dispersal evolution (Chapter 6)

Adaptive behavior and plasticity (Chapter 7)

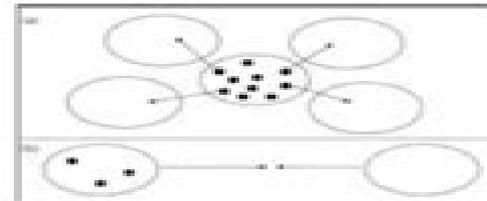
Generalization vs Speciation (Chapter 9)

Focus on new material (Chapter 10-16)

Antagonism vs. cooperation (Chapter 10)

Types of Symbiosis

	Helped (+)	Harmed (-)	Not affected (0)
Helped (+)	Mutualism	Predation (Herbivory) & Parasitism	Commensalism
Harmed (-)	—	Competition	Amensalism(?)



1. Increasing human crowding should lead to the evolution of ____ virulence in our pathogens (see figure above)

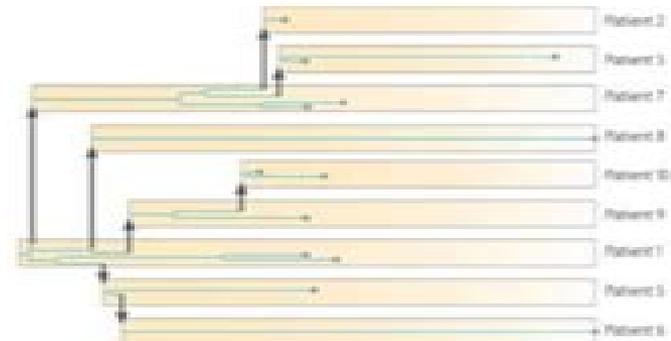
- A. Increasing B. Decreasing C. No change in

2. According to Mayhew, evolution of new pathogen strains within hosts (e.g. in patient 7) should lead to ____ virulence; pathogen evolution is less likely in patient ____.

- A. Increasing; 1
 B. Increasing; 6
 C. Decreasing; 1
 D. Decreasing; 6
 E. No effect on; 1-10

3. According to the model of **Anderson & May (1982)**, a pathogen's fitness is higher with decreasing

- A. reproduction within hosts
 B. host density
 C. survival of hosts
 D. host recovery
 E. numbers of unaffected hosts



Final Exam Ecology Evolution Genetics Study Guide

Jianjun Gao



Final Exam Ecology Evolution Genetics Study Guide:

The Top Books of the Year Final Exam Ecology Evolution Genetics Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. Final Exam Ecology Evolution Genetics Study Guide : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Final Exam Ecology Evolution Genetics Study Guide : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Final Exam Ecology Evolution Genetics Study Guide : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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