

# Bio 121: Final Exam Review | latest 2023/24 with full solution

evolution - change overtime

biological evolution - consists of genetic change in populations of organisms across generations

the two naturalists from England who established the idea of natural selection - 1.

Alfred Russel Wallace

2. Charles Darwin

where Alfred studied natural selection - Archipelago

where Charles Darwin studied natural selection - on his voyage of HMS Beagle

HMS Beagle - Charles Darwins book published that explained his belief of natural selection

Natural Selection - process by which inherited characteristics enhance survival reproduction

3 premises of natural selection - 1. organisms face a constant struggle to survive and reproduce

2. organisms tend to produce more offspring than can survive

3. individuals of a species vary in their characteristics

adaptive traits - genes are passed to offspring and those of better adapted parents will succeed because they will better adapt through time

adaption - trait that promotes success

artificial selection - selection conducted under human direction

examples of artificial selection - 1. dog breeding

2. plant breeding (broccoli, cauliflower, brussel sprouts)

speciation - process in which new species are generated

allopatric speciation - species formation due to physical separation of populations over geographic distance

how allopatric speciation works - other DNA combines with other species and mutations begin to form

Phylogenetic Trees - depict relationships among species, major groups of species, populations, or genes

Extinction - the disappearance of a species from earth

why extinction is a natural process - when conditions naturally change and a species does not have enough time to adapt and work with the change

example of extinction as a natural process - rise&fall of sea level, arrival of new species, severe weather events

mass extinction events - massive disappearance of species at once

what mass extinction our world is in currently - 6th mass extinction event due to human impact

ecology - study of interactions among organisms and between organisms and their environment

ecological levels of organization - 1. biosphere

2. ecosystem

# Sample Bio 121 Final Exam

**Kathleen Armour**

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