

EXAM EXPECTATIONS

AP Biology

“Unit Six: A-Level”

SUGGEST the consequences of eliminating all bacteria from earth
SUGGEST the consequences of two plates converging during plate tectonic movement
SUGGEST the location of bacterial DNA when the bacteria is resistant to extreme conditions
SUGGEST how you might identify an infectious agent as either a bacteria, virus, viroid or prion
DISCUSS how prokaryotes can be considered the most successful group of organisms on earth
DISCUSS how the overuse / liberal administration of antibiotics can be harmful to the population
DISCUSS the treatments for bacterial infections versus viral infections
DISCUSS alpha proteobacteria and their likely ancestors
DISCUSS how we can gain knowledge about ancient metabolic pathways by studying modern ones
DISCUSS pros and cons of broad-spectrum antibiotics
DISCUSS how oxygen production by photosynthesis affected life on earth at that time
DISCUSS why genetic systems likely switched from RNA based to DNA based systems
DISCUSS the conditions of early earth and how these conditions may have been conducive for abiotic origin of life
EXPLAIN why sexual reproduction is important
EXPLAIN benefits of crop rotation using legumes
EXPLAIN the discovery of the tobacco mosaic virus
EXPLAIN the evolution of hydrogen disulfide to water as a source of electrons in cellular energetics
EXPLAIN photosynthetic machinery of cyanobacteria
EXPLAIN why hypertonic environments are extremely challenging for cells to deal with
EVALUATE different methods of food preservation
DETERMINE/ CALCULATE the age of a fossil given half-life data
DETERMINE the type of symbioses from a given narrative