EXAM EXPECTATIONS
AP Biology
"Unit 5 B-Level"

OUTLINE how biologists explain or view homologous structures
OUTLINE biogeography
OUTLINE the experiments of Griffith, Chargaff, Hershey & Chase, Avery, McCarty & Mcleod, Meselson & Stahl, Watson & Crick
OUTLINE transformation in bacteria
OUTLINE the importance of sexual reproduction
OUTLINE the clonal selection theory
OUTLINE antigens
OUTLINE the antiparallel nature of DNA
OUTLINE the structure of DNA
OUTLINE where and how DNA stores information
OUTLINE sexual selection and artificial selection
OUTLINE genetic drift
OUTLINE gene flow
OUTLINE the bottleneck effect and the founder effect
OUTLINE the modern evolutionary synthesis
DESCRIBE Griffith's experiment on transformation
DESCRIBE Hershey and Chase's experiment
CALCULATE the % of a nitrogenous base in DNA when given the % of another
IDENTIFY cells that can produce antibodies from a list of choices
IDENTIFY parts of the immune system as innate or acquired
IDENTIFY examples of asexual reproduction from a list of choices
IDENTIFY parts of female or male human reproductive system from written description
IDENTIFY a given scenario as either a bottleneck or founder effect
IDENTIFY a scenario as one of the following: directional, stabilizing or disruptive selection
IDENTIFY an example as one of the following: disruptive, directional and stabilizing selection
IDENTIFY homologous structures from a list of choices
APPLY genetic look-up table to answer questions
COMPARE Darwinian and Lamarckian evolution
COMPARE disruptive, directional and stabilizing selection
COMPARE DNA and RNA
COMPARE repressible and inducible operons
COMPARE spermatogenesis and oogenesis (differences mainly)
COMPARE prokaryotic and eukaryotic cells
COMPARE intersexual and intrasexual selection