

EXAM EXPECTATIONS

AP Biology Exam

“Unit 7: Cell Topics”

STATE cell signaling was an early event in the evolution of life
STATE that most signal receptors reside on the membrane surface
STATE that the internal composition of plasma membranes differs from its external composition
STATE that chemical signaling pathways are common in living organisms
STATE the primary factor that determines the contents of the supernatant in cell fractionation
DEFINE plasmids
DEFINE transposons
DEFINE bacteriophage, viroids
DEFINE prophage, provirus
DEFINE retrovirus
DEFINE ligand
LIST traits of molecules that allow them to pass directly through a plasma membrane
LIST functions of the cytoskeleton
LIST common secondary messengers
LIST characteristics common to all viruses
IDENTIFY examples of active and passive transport
IDENTIFY the process by which white blood cells engulf bacteria
IDENTIFY the single strongest piece of evidence that supports a common origin of life
IDENTIFY the primary ecological role of prokaryotes
IDENTIFY the location of cell respiration in bacteria
IDENTIFY organelles that contain DNA other than the nucleus
IDENTIFY the molecules that make up a plasma membrane and the role of each
IDENTIFY the role of the extracellular matrix
IDENTIFY the role of operons
IDENTIFY the purpose of cell fractionation