EXAM EXPECTATIONS AP Biology "Unit 9 Genetics"

STATE the role of chemiosmosis in chloroplasts

STATE the primary role oxygen in cell respiration

STATE the function of each organelle listed in the powerpoint

STATE the role of the SRY gene

STATE the type of DNA that all males inherit from their mother

STATE the type of mutation(s) that results in a chromosome lacking certain genes

STATE why linked genes are inherited together

STATE the Law of Independent Assortment

STATE the Law of Segregation

STATE the effects or result of crossing over

STATE the effects or result of independent assortment

STATE the products of meiosis

STATE the process that leads directly to the formation of gametes

STATE the result (product) of fertilization

STATE the proteins involved in the regulation of the cell cycle whose concentrations fluctuate

STATE the role of kinases

STATE the role(s) of cyclins and MPF's

STATE how a cell will respond after receiving a go-ahead signal at a G1 checkpoint

STATE the type of cell that forms cell plates during cytokinesis

STATE the effect on a cell should cytokinesis not follow mitosis

STATE where spindle fibers originate in both plant and animal cells

DEFINE chromatid, chromosome, chromatin

DEFINE centriole centrosome

DEFINE centromere, kinetochore

DEFINE density dependent inhibition

DEFINE genome, genes, alleles

DEFINE progeny

DEFINE karyotype

DEFINE spores, sporophyte

DEFINE gametes, gametophyte

DEFINE zygotes

DEFINE alternation of generations

DEFINE a test cross

DEFINE multifactorial diseases

DEFINE active site

DEFINE diploid, haploid

LIST differences between sexual and asexual reproduction

LIST differences in homologous chromosomes

LIST the steps of meiosis in chronological order

LIST ways in which sex generates variation