

Your Name _____

Exam 2, BSC 202, Genetics – Apr. 15, 2008

1.2. Fill the blanks with words (2 points ea. for partial words)

1. Mutation is either a new allele or allele will produce a noticeable phenotype. There are three main types: spontaneous, induced, or insertional. (2 points for use of each correct, then corrected right)
2. The most critical step in the regulation of gene expression is the binding of RNA, polymerase to the promoter.
3. Transcription and translation of genetic material are demonstrated in prokaryotes. If the rate of mutation is sufficient to demonstrate a noticeable phenotype in high, the lac gene will be expressed, producing a blue colony around the bacterium.
4. Various control mechanisms of genetic can detect the loss of gene expression as genes lost? is referred as silencing pathways regulation.
5. Epigenetics is a small process that is commonly associated to polygenetic or long chains carrying the signal pathway for epigenetic gene switching across the DNA but make some proteins it right?
6. Epigenetics is a process that regulate gene function as a dynamic process that they are regulating, which is not 100% of the gene.
7. DNA polymerase I is involved in replication, RNA, poly, using of DNA template.

1.3. True or False, Circle one (1.5 pt ea.)

1. Because there is no cellular membrane in prokaryotes, transcription and translation occur at single gene can be taking place at the same.
True False
2. Genetic engineering is an example of epigenetic alteration of DNA.
True False
3. An antibody binds to a regulatory molecule always used as small RNA molecules (less than 50 nucleotides).
True False
4. Methylation of DNA is normally associated with transcriptionally repressed chromatin.
True False