

Dr. Joseph Ross

F'17 BIOL 102

Exam 1

Alignment: SKS Tasks & Bloom's & Point Values

Q	Bloom's	Points	Task
1	1	2	Arrange nucleotides by chemical structure and hydrogen-bonding capability
2	3	1	Apply knowledge of the chemical structure of nucleotides to explain DNA polarity notation
3	4	1	Predict the impact of changing temperature on DNA structure
4	3	2	Classify the structures and components of chromosomes
5	2	3	Classify the structures and components of chromosomes
6	3	2	Classify the structures and components of chromosomes
7	3	2	Compare a karyogram and a karyotype to identify discrepancies
8	1	1	Locate the DNA sequence of a gene
9	4	1	Predict the frequency of a given nucleotide sequence in a genome
10	1	2	Identify restriction endonuclease sites in a DNA sequence
11	1	1	Identify the outcomes of various treatments/processes on nucleotide identity
12	2	3	Classify types of DNA sequences differences as indels or microsatellites, using appropriate notation
13	5	4	Create a numbered DNA alignment and consensus sequence when provided individual sequences from multiple genes or species
14	2	3	Distinguish a genotype from a haplotype; homozygosity from heterozygosity; allele from gene
15	3	2	Calculate the probability that one crime suspect's DNA sample matches a forensic DNA sample found at a crime scene
		30	

Bloom's	% of Points	% of Qs	Letter Grade	% of Students
1 (remember)	20%	27%	F	5%
2 (understand)	30%	20%	D	11%
3 (apply)	30%	33%	C	22%
4 (analyze)	7%	13%	B	42%
5+6 (evaluate, create)	13%	7%	A	19%