BIOL-12

HW8

Name			
Name			

C) phage... prophage

Read Chapter 10 from mutations through prions and answer the questions below. Due Thursday, Nov1, in class, or complete the online version (10 points max).

l) The RNA that is trans	slated into a polypeptid	e is RNA.		1)
A) transfer	B) viral	C) messenger	D) ribosomal	ŕ
2) A mutation within a	gene that will insert a p	remature stop codon in mRI	NA would	2)
		tion of the next gene begins		
	0 0	le nucleotide in the gene		
	tened polypeptide chai	n		
D) result in a long	ger polypeptide chain			
3) What is the smallest 1	number of nucleotides t	hat must be added or subtra	acted to change the	3)
triplet grouping of th	e genetic message?			
A) one	B) two	C) three	D) four	
l) What is the ultimate s	source of all diversity?			4)
A) natural selection		B) meiosis		
C) mutation		D) sexual recombine	nation	
5) Mad cow disease is caused by				
A) an enveloped v				
	eins called prions.			
	RNA molecules called v	riroids.		
D) a retrovirus sir	nilar to HIV.			
2		n unknown virus to see how	2 0	6)
		tice that the bacterial popula		
-		assuming that the infection of	occurred, what can you	
conclude from your o		ucing the lysogenic cycle.		
	etrovirus that is reprod			
	•	producing the lysogenic cycl	e.	
		producing the lytic cycle.		
7) Plant viruses				7)
	_· s viruses attack only ani	mals		- /
	, rather than DNA, as t			
	that can be easily cured			
D) 1 (1 1 .	rather than causing dis-			

D) retrovirus... virus

9) HIV (human immunodeficiency virus) m	ust use its own to reproduce.	9)			
A) RNA polymerase	B) tRNA				
C) DNA polymerase	D) reverse transcriptase				
10) Which of the following would NOT likely develop as an emerging virus?					
A) a virus that begins to infect people in New York City, a popular tourist destination					
B) A virus that is normally harmless t	to humans undergoes rapid mutations.				
C) a virus that affects primarily rabbits mutates and infects humans					
D) a virus harmful to humans that cha	anges very slowly over time				