MIC 226 EXAM III FALL 95

READ THE QUESTIONS CAREFULLY

PRINT NAME_____

1. encode acccep	. This c	Name five enzymes or other proteins you would expect a phage or animal virus chromosome to question does not mean that the protein must be encoded by both phages and animal viruses. Either/or is
	A.	
	В.	
	C.	
	D.	
	E.	
	on. Wha	pts) List and briefly describe any four of the major steps or biochemical events required for prophage it enzymes, other proteins, nucleic acids, or specific sites within nucleic acids are involved in each step? ith lambda, which is a temperate phage, and susceptible bacterial host cells.
	A.	
	В.	
	C.	
	D.	
	D.	

the Fer	tility Fa	ctor integ	Compare and contrast bacterial transformation by chromosomal fragments and conjugation which omosomal DNA fragments (that is, conjugation involving HFR donors; HFR donors are those with grated in the chromosome). Use complete sentences. In both A and B below, transformation and se two cases specifically and not to other examples of transformation or conjugation.
	A.	List two	ways that transformation and conjugation are similar:
		i.	
		ii.	
transfo	B. mation	List fou and conj i.	r ways that transformation and conjugation are dissimilar. Tell how they are different in each jugation.
		ii.	
		iii.	
		iv.	

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	(16 pts) Assume that you need to make a molecular clone of some gene from a given organiam, <i>Mycobacterium</i> . Name four things (chemicals, enzymes, proteins, bacterial cells, biochemicals), other than acterium cells, that you would need for this procedure. Tell why each is necessry?
	A
	B
	C
	D
You ma	(20 pts) List and briefly describe any five of the major steps in growth of a retrovirus within a single I host cell. Your definition of "major" is acceptable so long as the steps are separate and are not redundant. By start with viruses and susceptible host cells. Include the enzymes, other proteins, nucleic acids, nucleic acids or other factors involved.
	A

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Question 5 con	r'd NAME PRINT
В.	
C.	
D.	
E.	
6. (16 p	Specialized transduction
В.	Bacterial DNA modification enzyme
C.	Reverse transcriptase
D.	Generalized transducing particle
E.	Dominance (genetic)