LS Notes CH 4.4	TI	HE DNA	CONNE	CTION	Date:	
Questions (think of questions	A. The Ge	netic Co	ode			
that might be on the exam)	1.	The ma	ain funct	ion of genes is	s to	
	2		and DNA	^		
	۷.		and DNA		1 A + la - + + - + - + - + - + - + - + - + - +	
		i. Gene – section of DNA that contains				
		ii.	_	-	a series of	in a row
	2	❖ EXAMPLE: ATGACGTAC				
	3.	3. Order of the Bases				
		i. Order of bases in a gene forms a				
					what	
		ii.			bases (a	
			*	i.e.)	always codes	for alanine
	B. How Ce	ells Mak				
	1.	Inform	nation fi	rom a gene is	used to produce a	
	2.	Protei	n synth	esis =		
	3.	Takes	place in	the		in the
		cytopla	asm			
	4.		ole of RI	NA		
		i.	Geneti	c messenger f	rom in nuc	leus to
		ii. Different from DNA				
		a. RNA has strand – D				
Q. How is RNA different from DNA?					lifferent	
			С.)	_ instead of
				thymine (T)		
	5.		of RNA			
		i.) copie	
					and c	
			in the cytoplasm			
		ii.	Transf) carries	
					to th	
		adds them to the				
	6.		ating th			
		i.			lecule must	
Q. What is the function of tRNA?			and m	ake		
		ii.	Secon	d	leaves the nu	cleus and enters
			the			
		iii.	Third -	the	attaches to	o the
			and "_		" the code	
		iv.	Fourth)	puts the	
			it carri	ies on the		

	C. Mutati	ons	
	1.	<u>Mutation</u> – any change in a	or
	2.	Can cause the production of the	_ during protein
		synthesis	
	3.	Results in a change in the	
	4. Types of Mutations		 -
		i. Changes in a	during DNA
		replication	
		a. Substitution or	of
		bases	
		ii. Chromosomes don't always	
Q. What are two types of mutations?		a. Too few or too	
	5.	Effects of Mutations	
		i. Source of	
		ii. Few mutations are	and some
		are	

Summary (about 5 sentences):