Microbiology for Health Sciences Ch

apter 7 Study Aid	Name:
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PRINT	AND HANDWRITE YOUR ANSWERS!				
	. Define genetics.				
	Define genetics.				
2.	Define genome.				
3.	Are prokaryotes haploid or diploid? How many chromosomes do prokaryotes have?				
4.	Where is the chromosome found in prokaryotes?				
5.	What are plasmids? What can they do?				
	i. Are eukaryotes haploid or diploid? Remember that eukaryotic cells have multiple linear chromosomes				
	(# depends on species).				
7.	Where are chromosomes found in eukaryotes?				
DNA DA	eplication				
	The DNA strand is antiparallel. DNA replication happens in the to direction.				
O.	The Divisional is unuparallel. Divite pheatien happens in the to uncertain.				
9.	What do the following do in DNA replication: a. Helicase:				
	b. Stabilizing proteins:				
	c. DNA polymerase:				
	d. Primase:				
10	. What is the difference between the leading strand and lagging strand in DNA replication?				
11.	. What is genotype?				
12.	. What is phenotype?				

Transfer of Genetic Information – Transcription and Translation
13. Draw the Central Dogma of Molecular Biology:
14. What does RNA Polymerase do?
15. How many amino acids are there?
16. Where does transcription occur in prokaryotes? Where does it occur in eukaryotes?
To. Where does transcription occar in proxaryotes.
17. Translation occurs on the
17. Translation occurs on the
18. What is the job of tRNA?
19. What is an operon?
20. Describe what harmon with the less angues?
20. Describe what happen with the lac operon?
21. What is mutation?
22. A mutation can lead to what result?

24.	What i	is vertical	I gene transfer?
25.	What i	s horizor	ntal gene transfer?
	a.		aryotes, what are the following: Transformation:
		ii.	Transduction:
		iii.	Conjugation:

23. What 3 things can induce mutation in the DNA?