

Name: _____

Date: ___/___/___

Period: _____

Biology

Chapter 12 Vocabulary

1.	Transformation	process in which one strain of _____ is changed by a gene or genes from another strain of bacteria
2.	bacteriophage	_____ that infects bacteria
3.	Nucleotide	monomer of nucleic acids made up of a _____, a _____, and a base
4.	base pairing	principle that bonds in DNA can form only between adenine and _____ and between guanine and _____
5.	operon	group of _____ operating together
6.	operator	region of chromosome in an _____ to which the repressor binds
7.	differentiation	process in which cells become _____ in structure and function
8.	mutation	change in a _____ sequence that affects genetic information
9.	point mutation	gene mutation involving changes in one or a few _____
10	polyploidy	condition in which an organism has extra sets of _____

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11	gene	sequence of _____ that codes for a _____ and thus determines a trait
12	messenger RNA (mRNA)	RNA molecule that carries copies of instructions for the assembly of _____ into _____ from DNA to the rest of the cell
13	ribosomal RNA (rRNA)	type of RNA that makes up the major part of _____
14	transfer RNA (tRNA)	type of RNA molecule that transfers amino acids to _____ during protein synthesis
15	transcription	process in which part of the nucleotide sequence of _____ is copied into a _____ sequence in RNA
16	RNA polymerase	enzyme similar to DNA polymerase that binds to _____ and _____ the DNA strands during transcription
17	promoter	region of DNA that indicates to an enzyme where to _____ to make RNA
18	intron	sequence of _____ that is _____ involved in coding for a protein
19	exon	expressed sequence of DNA; codes for a _____
20	codon	three-nucleotide sequence on messenger RNA that codes for a single _____.

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21	translation	decoding of a _____ message into a polypeptide chain
22	anticodon	group of three bases on a _____ molecule that are complementary to an mRNA codon
23	chromatin	granular material visible within the _____ of the cell; consists of _____ tightly coiled around proteins
24	histone	protein molecule around which DNA is tightly coiled in chromatin
25	replication	copying process by which a cell duplicates its _____
26	DNA polymerase	enzyme involved in DNA replication that joins individual _____ to produce a DNA molecule