Q

— PW DNA Replication & Protein Synthesis Test

14 Ma	tching Questions	Regenerate Test	
1.	transcription	a The ordering of nucleotides in DNA molecules that carries the	Print this Test
2.	anticodon	genetic information in living cells	Question Types
3.	termination signal	b A sequence of three bases of a tRNA molecule that pairs with the complementary three-nucleotide	Written Matching
4.	nitrogenous base	codon of an mRNA molecule during protein synthesis.	Multiple Choice True/False
5.	base sequence	c The type of RNA that makes up the major part of ribosomes	Prompt With
6.	genetic code	d The organic process whereby the DNA sequence in a gene is copied into mRNA	Term Definition
7.	pyrimidine	e A nitrogenous base that has a single-ring structure; one of the	Question Limit
8.	genome	two general categories of nitrogenous bases found in DNA and RNA	of 28 available terms
9.	translation	 f An organic base that contains nitrogen; a subunit of a nucleotide 	
10.	thymine dimers	in DNA and RNA	⊳ ×
11.	ribonucleic acid	g A Y-shaped region on a replicating DNA molecule where new strands are growing.	
12.	replication fork	h The order of nitrogenous bases on a chain of DNA	
13.	DNA replication	i A single-stranded nucleic acid that contains the sugar ribose	
14.	ribosomal RNA	j The process of making a copy of DNA	
		k A bond formed by two thymines in	

DNA; caused by UV light; results in mutation or death of a cell

- The complete genetic material contained in an individual
- **m** A specific sequence of nucleotides that marks the end of a gene
- n The process whereby genetic information coded in messenger RNA directs the formation of a specific protein at a ribosome in the cytoplasm

14 Multiple Choice Questions

- 1. Uses energy from visible light to reverse damage of thymine dimers
 - a. helicase
 - b. promoter
 - c. ribose
 - d. photolyase
- 2. An enzyme involved in DNA replication that joins individual nucleotides to produce a DNA molecule
 - a. photolyase
 - b. DNA polymerase
 - c. RNA polymerase
 - d. deoxyribose
- 3. A change in the nucleotide-base sequence of a gene or DNA molecule
 - a. mutation
 - b. purine
 - c. codon
 - d. translation
- 4. A nucleotide sequence on a DNA molecule to which an RNA polymerase molecule binds, which initiates the transcription of a specific gene
 - a. promoter
 - b. ribose
 - c. codon
 - d. genome
- 5. The formation of proteins by using information contained in DNA and carried

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by mRNA

- a. protein synthesis
- b. photolyase
- c. ribose
- d. promoter
- 6. The three-nucleotide sequence on messenger RNA that codes for a single amino acid
 - a. ribose
 - b. genome
 - c. codon
 - d. anticodon
- 7. A five-carbon sugar present in RNA
 - a. purine
 - b. ribose
 - c. helicase
 - d. genome
- 8. An enzyme that untwists the double helix of DNA at the replication forks.
 - a. purine
 - b. helicase
 - c. genome
 - d. ribose
- 9. A monomer of nucleic acids made up of a 5-carbon sugar, a phosphate group, and a nitrogenous base
 - a. codon
 - b. nucleotide
 - c. purine
 - d. mutation
- 10. RNA molecule that carries copies of instructions for the assembly of amino acids into proteins from DNA to the rest of the cell
 - a. messenger RNA
 - b. base sequence
 - c. ribosomal RNA
 - d. transfer RNA
- 11. An enzyme that adds and links complementary RNA nucleotides on the DNA

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template during transcription

- a. RNA polymerase
- b. photolyase
- c. deoxyribose
- d. DNA polymerase
- 12. A five-carbon sugar that is a component of DNA nucleotides
 - a. purine
 - b. helicase
 - c. ribose
 - d. deoxyribose
- 13. The type of RNA molecule that transfers amino acids to ribosomes during protein synthesis
 - a. transfer RNA
 - b. ribosomal RNA
 - c. messenger RNA
 - d. translation
- 14. A nitrogenous base that has a double-ring structure; one of the two general categories of nitrogenous bases found in DNA and RNA
 - a. purine
 - b. codon
 - c. ribose
 - d. pyrimidine

