Name:	Class:	Date:	ID: A
vainc.	Class.	Date:	ID. A

## **CP BIO CH 12 PRACTICE TEST**

## **Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- 1. Avery's experiments showed that bacteria are transformed by
  - a. RNA

c. proteins.

b. DNA.

d. carbohydrates.

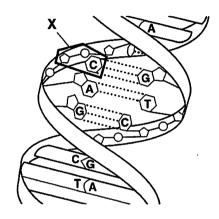


Figure 12-1

- \_\_\_\_ 2. Figure 12-1 shows the structure of a(an)
  - a. DNA molecule.

c. RNA molecule.

b. amino acid.

- d. protein.
- 3. Which of the following is a nucleotide found in DNA?
  - a. ribose + phosphate group + thymine
  - b. ribose + phosphate group + uracil
  - c. deoxyribose + phosphate group + uracil
  - d. deoxyribose + phosphate group + cytosine
- 4. In eukaryotes, DNA
  - a. is located in the nucleus.
- c. is located in the ribosomes.
- b. floats freely in the cytoplasm.
- d. is circular.

- 5. During mitosis, the
  - a. DNA molecules unwind.
  - b. histones and DNA molecules separate.
  - c. DNA polymerase makes copies of DNA strands.
  - d. nucleosomes become more tightly packed.
- 6. DNA is copied during a process called
  - a. replication.

c. transcription.

b. translation.

d. transformation.

Name	:		_				
	7.	<ul> <li>DNA replication results in two DNA molecules,</li> <li>a. each with two new strands.</li> <li>b. one with two new strands and the other with two</li> <li>c. each with one new strand and one original strand.</li> <li>d. each with two original strands.</li> </ul>					
	8.	a. TCGAAC. c.	AGCTTG.				
		b. GATCCA. d.	GAUCCA.				
	9.	<ul><li>RNA contains the sugar</li><li>a. ribose.</li><li>b. deoxyribose.</li><li>c.</li><li>d.</li></ul>	glucose. lactose.				
	10.	. Unlike DNA, RNA contains a. adenine. c. b. uracil. d.	phosphate groups. thymine.				
	11.	<ul> <li>Which of the following are found in both DNA and</li> <li>a. ribose, phosphate groups, and adenine</li> <li>b. deoxyribose, phosphate groups, and guanine</li> <li>c. phosphate groups, guanine, and cytosine</li> <li>d. phosphate groups, guanine, and thymine</li> </ul>	RNA?				
	12.	a. 1 c.	hundreds thousands				
	13.	<ul> <li>Which type(s) of RNA is(are) involved in protein sy</li> <li>a. transfer RNA only</li> <li>b. messenger RNA only</li> <li>c. ribosomal RNA and transfer RNA only</li> <li>d. messenger RNA, ribosomal RNA, and transfer</li> </ul>					
	14.	1	RNA polymerase proteins				
	15.	•	9				
	16.	Why is it possible for an amino acid to be specified by more than one kind of codon?  a. Some codons have the same sequence of nucleotides.					
		<ul> <li>b. There are 64 different kinds of codons but only</li> <li>c. Some codons do not specify an amino acid.</li> <li>d. The codon AUG codes for the amino acid methin protein synthesis.</li> </ul>					

Name	e:						
	17.	What happens during the process of translation?  a. Messenger RNA is made from DNA.  b. The cell uses information from messenger RNA to produce proteins.  c. Transfer RNA is made from messenger RNA.  d. Copies of DNA molecules are made.					
	18.	<ul><li>Genes contain instructions for assembling</li><li>a. purines.</li><li>b. nucleosomes.</li></ul>	c. d.	proteins. pyrimidines.			
	19.	<ul><li>Which type of RNA functions as a bluepri</li><li>a. rRNA</li><li>b. tRNA</li></ul>	int of the c. d.	genetic code? mRNA RNA polymerase			
	20.	<ul><li>A mutation that involves one or a few nuc</li><li>a. chromosomal mutation.</li><li>b. inversion.</li></ul>	leotides : c. d.	is called a(an) point mutation. translocation.			
	21.	<ul><li>If a specific kind of protein is not continua</li><li>a. always transcribed.</li><li>b. never expressed.</li></ul>	ally used c. d.	by a cell, the gene for that protein is turned on and off at different times not regulated.			
	22.	Specialized cells regulate the expression of genes because they a. do not want the genes to become worn out. b. cannot control translation. c. do not carry the complete genetic code in their nuclei. d. do not need the proteins that are specified by certain genes.					
	23.	Hox genes determine an animal's a. basic body plan. b. size.	c. d.	skin color. eye color.			

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