#### **Biotech Term 3 Test**

True/False	
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Indicate	whather	the	statement	ic	truo	or fa	100
maicaie	wneiner	ıne	siaiemeni	is i	ırue	or ia	ıse.

 1.	When	you ar	e using	a gel	to perform	electrop	horesis,	the	gel is	covered	with	TAE	buffer	after :	you
	put the	DNA	in the	wells.											

- 2. The purpose of the loading dye in electrophoresis is to stain the DNA after it has moved through the agarose gel.
- 3. PCR stands for Polymerase Chain Reaction.
- 4. PCR is used to separate DNA according to size.
- 5. DNA gel electrophoresis is the process that can be used to make a DNA fingerprint.

#### **Multiple Choice**

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

- 6. Gel electrophoresis is a technique used to \_\_\_\_\_.
  - a. clone chromosomes of various species
  - b. cut DNA into fragments of various sizes
  - c. separate DNA fragments by charge and length
  - d. inject foreign DNA into animal and plant cells
  - 7. A small amount of DNA obtained from a mummy or from frozen remains of a human may be cloned. In order to clone small amounts of DNA, \_\_\_\_\_ needs to be used to generate larger quantities of the DNA.
    - a. polymerase chain reaction techniques
    - b. gel electrophoresis
    - c. DNA fingerprinting
    - d. gene splicing
  - 8. Examine the pieces of DNA represented in Figure 13-1. Why are the nucleotide sequences on both strands referred to as palindromes?



Figure 13-1

- a. the sequences show chromosome mutation
- b. the DNA is an example of a transgenic codon
- c. the sequences are the same but run in opposite directions
- d. each nucleotide is represented
- 9. The process used to separate DNA segments of different lengths is \_\_\_\_\_.
  - a. PCRb. gel electrophoresis

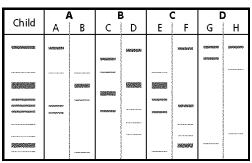
- c. gene amplification
- d. all of these

**Figure 13-7** 

a. Ab. B

c. C

d. D



**Figure 13-8** 

13.	According to	Figure	13-8,	which	are the	parents	of the	child?

a. A

c. C

b. B

d. D

- 14. Which of the following must happen first in order for DNA replication to occur?
  - a. DNA polymerase binds to the leading strand
  - b. DNA is unwound
  - c. Hydrogen bonds form between bases
  - d. chromosomes condense
- 15. Okazaki fragments form on the:
  - a. lagging strand

c. leading strand

b. base-pairs

d. 5' end

- 16. A nucleotide consists of:
  - a. a nitrogen base
  - b. a nitrogen base and a sugar
  - c. a nitrogen base, sugar, and phosphate
  - d. two nitrogen bases, a sugar, and a phosphate
- 17. What is the sequence of matching (complementary) DNA bases that would bond to the strand pictured below?



- a. ATGAAGTTTTTTG
- b. ATGAAGTTATTG

- c. ATGAAGTTTTTG
- l. ATCAAGTTTTTG
- 18. The process of DNA replication is called a \_

c. Conservative

a. Dispersive

d. Random

b. Semiconservative

ative u. Kaliuolli

- 19. What is the complementary strand of the following DNA strand: 5' GCACGUUUACCGA 3'?
  - a. 3' AUGCGUUUACCGA 3'
- d. 3' CGUGCAAUGGCU 5'

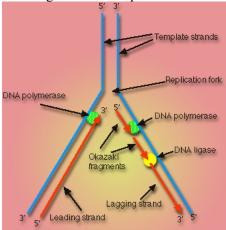
process.

- b. 3' TACGCAAATGGCT 5'
- e. 3' CGTGCAATGGCT 5'

	c. 3' AGCCAUUUGCGUA 5'	f.	none of the above.	
 20.	If you start with 1 strand of DNA in the tube, th cycles of PCR.	e nu	mber of amplified pieces of DNA equals	after five
		c. d.		
 21.	Place in order the following steps involved	in P	CR:	
	(1) newly synthesized stra	ands	act as templates	
	(2) temperature lowered;	DN	A primers and polymerase added	
	(3) heat separates strands	of ta	arget DNA	
	(4) complementary base p	airi	ng between primers and template	
	(5) DNA nucleotide bases	s ado	led; new strand synthesized	
			3 - 2 - 4 - 5 - 3 - 1 2 - 3 - 4 - 5 - 2 - 1	
 22.	a. DNA Polymerase I	d.	action to copy the template segment of DNA? Taq Polymerase DNA Taq	
 23.	What is PCR good for?			
	<ul><li>a. To check expression of a gene</li><li>b. To see if your gene is damaged</li><li>c. To make a few copies of your gene</li><li>d. To make a huge number of copies of a g</li></ul>	gene		
 24.	What are the three major steps of the reaction	on in	the correct order?	
	<ul><li>a. Annealing, Denaturation, Extension</li><li>b. Denaturation, Annealing, Extension</li><li>c. Extension, Denaturation, Annealing</li><li>d. Denaturation, Extension, Annealing</li></ul>			
 25.	What kind of chemical bonds are found between	weei	n paired bases of the DNA double helix?	
	1 1		covalent hydrogen	
 26.	Enzymes called catalyze the formation sugar-phosphate backbone of the DNA mole		•	
 27.	b. helicases		ligases RNA polymerases	
	b. Adenine		Adipose Adenosine	
 28.	The Purines are:			

- a. A and G
  c. A and C
- b. A and T d. C and G
- 29. A Purine always pairs with
  - a. only other purines

- c. any pyrimidine
- b. either purines or pyrimidines
- d. a specific pyrimidine
- 30. The backbone of a DNA molecule is made of which two components?
  - a. phosphate molecules and ribose sugars
  - b. deoxyphosphate molecules and ribose sugars
  - c. phosphate molecules and deoxyribose sugars
  - d. deoxyphosphate molecules and deoxyribose sugars
- \_\_ 31. DNA is a polymer of:
  - a. nucleosides
  - b. fatty acids
  - c. deoxyribose sugars connected by phosphodiester bonds
  - d. nucleotides
  - 32. In the 1940s, Erwin Chargaff discovered that
    - a. DNA has about the same amount of adenine as thymine, and of cytosine as guanine
    - b. all four nitrogenous bases come in nearly equal amounts
    - c. DNA is the genetic material
    - d. DNA exists in the shape of a double helix
- \_\_\_\_ 33. That a DNA molecule's sides are antiparallel means that
  - a. they frequently intersect each other
  - b. the nucleotides on either side run in opposite directions
  - c. they are composed of nucleotides
  - d. DNA indirectly controls the production of proteins
  - 34. The diagram above represents which of the following processes?

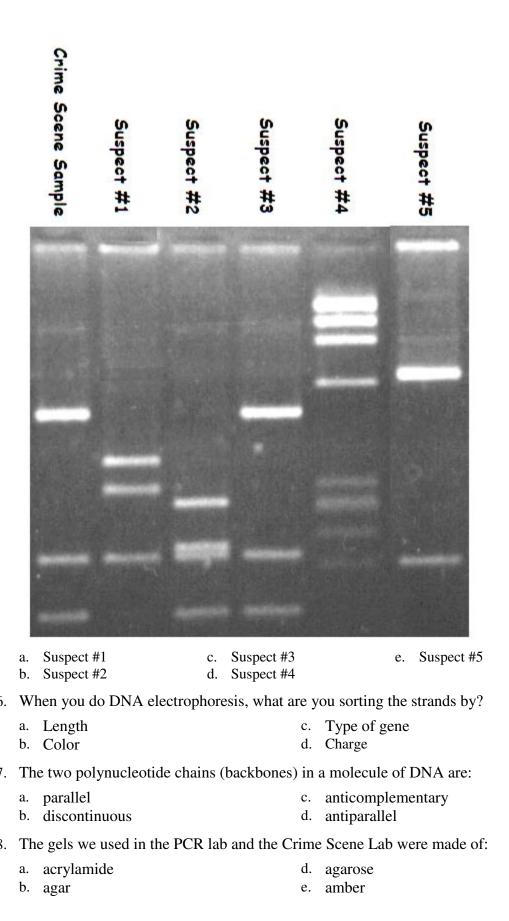


a. Transcription

c. Polymerization

b. Replication

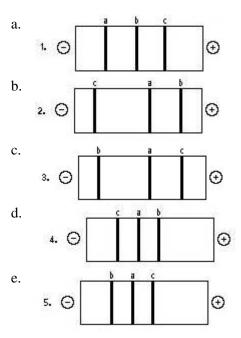
- d. Translation
- 35. In the DNA Fingerprint below, which of the suspects is the contributer of DNA at the crime scene?



	c. aspic
 39.	If a circular piece of DNA has three sites for a particular restriction enzyme, into how many fragments will that restriction enzyme cut the DNA?
	<ul> <li>a. 2</li> <li>b. 4</li> <li>c. 3</li> <li>d. 5</li> <li>e. The answer cannot be predicted.</li> <li>f. There is an answer, but it is none of the above.</li> </ul>
 40.	If a <u>linear</u> piece of DNA has three sites for a particular restriction enzyme, into how many fragments will that restriction enzyme cut the DNA?
	<ul> <li>a. 2</li> <li>b. 4</li> <li>c. 3</li> <li>d. 5</li> <li>e. The answer cannot be predicted.</li> <li>f. There is an answer, but it is none of the above.</li> </ul>
 41.	A restriction enzyme digestion reaction of a piece of DNA utilizes which particular ingredients in the list below?
	1. water
	2. ethyl alcohol
	3. DNA
	4. buffer
	5. alcohol dehydrogenase
	6. restriction enzyme
	a. 1, 2, 3 and 4 b. 1, 2, 3, 4, and 5 c. 2, 3, 4, and 5 d. 1, 3, 4, and 6 e. 1, 3, 4, and 5 f. 2, 3, 4, and 6 g. all ingredients listed
 42.	In gel electrophoresis, the marker DNA is useful:
	<ul> <li>a. for showing that DNA can stain orange with ethidium bromide</li> <li>b. for showing the size of any DNA band that corresponds with a marker DNA band</li> <li>c. for telling you when to stop the electrophoresis experiment</li> <li>d. for allowing you to calculate the size of any DNA band in other lanes on the same gel</li> </ul>
 43.	Toward which pole (positive or negative) does DNA migrate when electric current is run through the gel?
	a. Positive c. Both

	b.	Negative d. Neith	er
 44.		Why does the electricity cause the DNA molecules nelectrophoresis?	nove through the agarose during
	<ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul>	The DNA molecues are negatively charged (opportunity of the DNA molecues have no charge and are repulsion.)	osite charges attract one another).
 45.	W	What would happen to the DNA fragments if you for	got to turn the electric current off?
	a.	The DNA fragments would keep on running thro end.	ugh the gel until they ran off the
	b.	gel and settle out.	
	c. d.	8	
 46.	De	Describe how different sized DNA fragments are sep	parated by the gel matrix.
	a.	Longer DNA fragments take longer to work their matrix, they don't travel as far through the gel as amount of time.	
	b.		• •
	c.		er, they leave centralized deposits
		More negative pieces of DNA move further through t Therefore the more negative pieces make it further in	he gel matrix and less negative ones. the gel than the less negative ones.
 47.	Rea	estriction enzymes will cut DNA from different people in the restriction enzyme cuts DNA randomly.	into different patterns of fragments because
	b.	once a fragment is cut once, it is more likely to be cut	
	c.	genetic differences between individuals' DNA will accut.	ld or remove sites for the enzyme to
	d.	the restriction enzymes cut DNA into fragments of all	equal length.
	e.		
 48.		his segment of DNA has restriction sites I and II, w Figure 19.1) Which of the following gels produced I	
	sep	eparation and identity of these fragments?	
		T CI	
		ав	

Figure 19.1



49. Use the following information and Figure 19.4 to answer the question(s).

A DNA fragment of unknown sequence is divided into four portions and mixed with all the elements necessary to synthesize the complementary strand. To each of these four mixtures a different deoxynucleotide is added in addition to the normal nucleotides. ddnucleotides compete with the normal nucleotides for insertion into the synthesizing strand of DNA. When a ddnucleotide is added the synthesis of the strand stops. Each mixture is then separated by electrophoresis and the gel in Figure 19.4 is obtained.

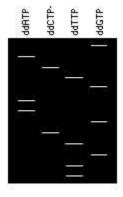


Figure 19.4

What is the sequence of the original template?

a. ACTGAACTGTTGG

d. GACTGAAGCTGTT

b. CTGACTTCGACAA

e. AACAGCTTCAGTC

- c. TTGTCGAAGTCAG
- 50. The sticky end of the DNA restriction fragment shown here reads \_\_\_\_\_.



a.	UGCA	Ĺ
a.	UUCE	۱

b. TGCA

d. TCGA

- \_\_\_\_\_ 51. The unpaired nucleotides produced by the action of restriction enzymes are referred to as \_\_\_\_\_.
  - a. sticky ends

b. base sequences

c. single strands

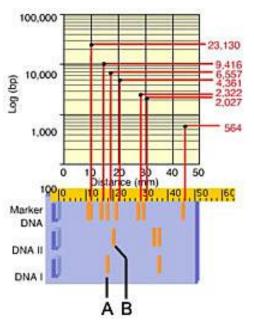
- d. restriction fragments
- e. ligases
- 52. In gel electrophoresis DNA molecules migrate from \_\_\_\_\_ to \_\_\_\_ ends of the gel.

a. acidic ... basic

b. negative ... positive

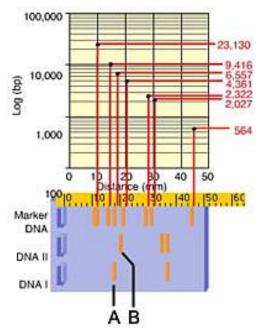
c. basic ... acidic

- d. long ... short
- e. positive ... negative
- \_ 53. In this example the marker DNA includes fragments that have 23,130, 9,416, 6,557, 4,361, 2,322, 2,027, and 564 base pairs. Approximately how many base pairs are in the DNA fragment indicated by the letter A?



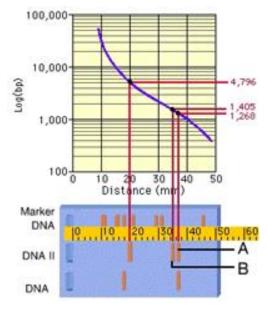
- a. 564
- b. 2,027
- c. 2,322

- d. 6,557
- e. 9,416
- \_ 54. In this example the marker DNA includes fragments that have 23,130, 9,416, 6,557, 4,361, 2,322, 2,027, and 564 base pairs. Approximately how many base pairs are in the DNA fragment indicated by the letter B?



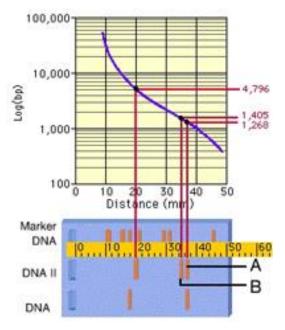
- a. between 23,130 and 9,416 base pairs
- b. between 6,557 and 4,361 base pairs
- c. between 9,416 and 6,557 base pairs
- d. between 2,322 and 2,027 base pairs
- e. between 4,361 and 2,322 base pairs

\_\_\_\_ 55. DNA fragment B consists of \_\_\_\_\_ base pairs.



- a. 564
- b. 1,268
- c. 1,405

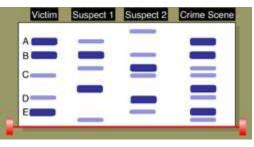
- d. 2,027
- e. 2,322
- 56. DNA fragment A consists of \_\_\_\_\_ base pairs.



- a. 564
- b. 1,268
- c. 1,405

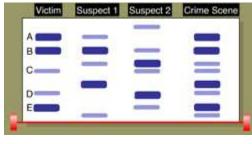
- d. 2,027
- e. 2,322

57. This is a DNA fingerprint exhibiting samples from a victim, two suspects, and the crime scene. Which of these DNA fragments is common to both the victim and Suspect 1? (Hint, must be same position and thickness.)

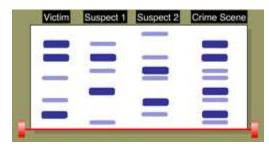


- a. *A*
- b. B
- c. C
- d. D
- e. E

58. This is a DNA fingerprint exhibiting samples from a victim, two suspects, and the crime scene. Which of these DNA fragments is common to both the victim and Suspect 2?



- a. A
- b. B
- c. C
- d. D
- e. E
- 59. Why is Suspect 1 considered more likely to have committed the crime than Suspect 2?



- a. The crime scene sample contains DNA fragments from both the victim and Suspect 1.
- b. The crime scene sample contains DNA fragments from both the victim and
- c. Suspect 1 and the victim have more DNA fragments in common that do the victim and Suspect 2.
- d. Suspect 2 and the victim have more DNA fragments in common that do the victim and Suspect 1.
- e. Suspect 1 and Suspect 2 have more DNA fragments in common than either have in common with the victim.

 60.	What is the name given to the short stretches	of D	NA formed on the lagging strand?
	<ul><li>a. Hiorshimi fragments</li><li>b. Okazaki fragments</li></ul>		Japanese fragments Okanuri fragments
 61.	DNA replication is extremely accurate. Only about one in a. $100,000$ b. 1 million c. $10$ million	d. e.	bases is incorporated incorrectly. 100 million 1 billion

62. Place in order the following steps involved in PCR:(1) newly synthesized strands act as templates(2) temperature lowered; DNA primers and polymerase added(3) heat separates strands of target DNA(4) complementary base pairing between primers and template(5) DNA nucleotide bases added; new strand synthesized

1 - 2 - 3 - 4

c 3-2-4-5-3-1

h. 3-5-4-2-3-1

d. 2-3-4-5-2-1

63. Which bond exists between Guanine and Cytosine in a DNA molecule?

a. Phosphodiester bond

c. Hydrogen bond

b. Covalent bond

d. All of the above

#### **Multiple Response**

Identify one or more choices that best complete the statement or answer the question.

64. Which of these people should receive credit for discovering the structure of DNA? (Choose 3) d. Anton Avery

a. James Watson

b. Joseph Griffiths

e. Rosalind Franklin

c. Francis Crick

f. Freidrick Meicher

65. Which of these is NOT found in DNA? (Choose 3)

a. Thymine

e. Phosphate

b. Adnine

f. Ribose

c. Uracil

g. Deoxyribose

d. Guanine h. Ionic Bonds

#### **Matching**

Match the enzymes in DNA replication with their correct function.

**DNA** Helicase

e. DNA Polymerase III

b. RNA Primase

Ligase

c. RNAse H

Single Strand Binding Proteins (SSBP)

- d. DNA Polymerase I
- 66. Removes the RNA Primers from the DNA backbone after replication is completed.
- 67. This enzyme unwinds and unzips the DNA strand to begin replication.
- The enzyme that adds the RNA primers to the DNA backbones that are being copied.
- 69. Adds DNA nucleotides to the newly synthesized DNA backbone in the place where the RNA primers were removed.
- 70. This is the enzyme that adds new DNA nucleotides to the growing DNA strand.
- 71. Bonds the sections of backbone together on the lagging strand to complete the DNA strand.
- These bond to the DNA backbones to keep them from reannealing while replication begins.

Answer the following questions about the process of PCR:

- a. Extension
- b. Denaturing
- Annealing
- 73. In a single cycle of the PCR process, what is the first step?
- 74. In a single cycle of the PCR process, what is the second step?
- 75. In a single cycle of the PCR process, what is the final step?
- 76. In a single cycle of the PCR process, in which step does the temperature increase to its highest point?
  - 77. In a single cycle of the PCR process, which step is where the primers attach to the DNA template?
  - 78. In a single cycle of the PCR process, in which step do the DNA nucleotides get added to the new backbone?
    - In a single cycle of the PCR process, in which step do the backbones untwist and separate?

Match the theory of how DNA replicates with its correct name.

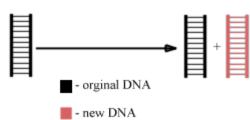
a. Conservative

80.

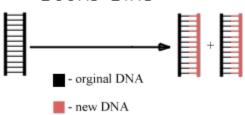
c. Dispersive

Semiconservative

## Looks Like:

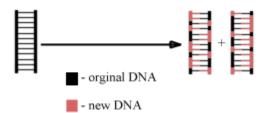


# Looks Like:



81.

### Looks Like:



82.

Examine the diagram of an agarose gel below and answer the following questions.

### Samples C A В D E F Band# 1 2 3 4 5 6 7 8 9 10

- a. Many DNA fragments of different sizes for different individuals.
- b. The bands nearest the wells (containing the longest DNA fragments).
- c. The bands farthest from the wells (containing the shortest DNA fragments).
- 83. Which band(s) traveled slowest?
- 84. What do the bands in the drawing of the agarose gel represent?
- 85. Which band(s) traveled fastest?

Examine the diagram of an agarose gel below and answer the following questions.

		33	Sampl	es			
	A	В	С	D	E	F	
Band #	15-03						
1	(( <del></del>	÷	- 00	3 <del></del> 3))	- 65	_	5 N
1 2 3	_			-		-	8
3			_				8
4			_				
5	_			_	_	8	
6			- 2				
-							
0	- 5		_	120	3,00		
7 8 9	(6						S S
	88 6						
10	- 88						
							<b>—</b>
a. Band 1						j.	Band 10
b. Band 2						k.	Bands 1& 4
c. Band 3						1.	Bands 1, 4 & 9
d. Band 4 e. Band 5						m. n.	Bands 1 & 9 Bands 4 & 9
f. Band 6						0.	Bands 1, 4, 7.5, & 9
g. Band 7						p.	Bands 6, 7 & 10
h. Band 8						q.	Bands 2, 6 & 10
i. Band 9						r.	Bands 6 & 10
In the diagram	n above	, whic	h banc	d was	closest	t to th	e negative electrode during electrophores e positive electrode during electrophores iduals tested?

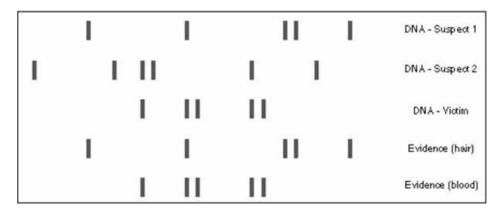
- 87.
- 88. Which DNA band(s) is/are found in all of the individuals tested?
- 89. Which DNA band(s) is/are unique to one individual?

#### **Consider the following scenario:**

86.

A 23 year old male was found murdered in the hallway of his apartment building. Investigators collected many samples of evidence including blood found on a knife near the body and hair from the victim's shirt. Police had two suspects due to eyewitness accounts. Both suspects, the victim and the evidence were analyzed using DNA fingerprinting.

### DNA fingerprint: electrophoresis of restriction fragments

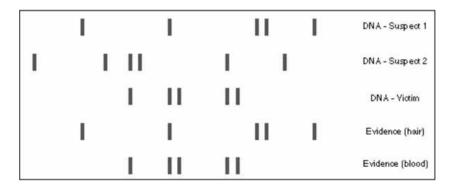


- a. the victim
- b. suspect #1
- c. suspect #2
- d. both the victim and suspect #1
- e. both the victim and suspect #2
- 90. Who does the hair evidence found at the crime scene most likely belong to?
- 91. Who does the blood evidence found at the crime scene most likely belong to?

#### For Questions 9–12, consider the following scenario:

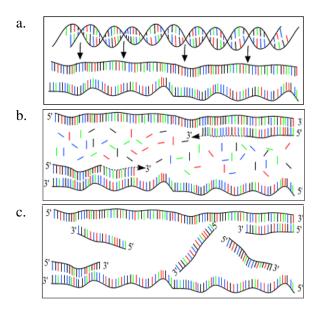
A 23 year old male was found murdered in the hallway of his apartment building. Investigators collected many samples of evidence including blood found on a knife near the body and hair from the victim's shirt. Police had two suspects due to eyewitness accounts. Both suspects, the victim and the evidence were analyzed using DNA fingerprinting.

#### DNA fingerprint: electrophoresis of restriction fragments



- a. He/She's innocent.
- b. He/She's guilty.
- c. There is no direct DNA evidence that he was at the crime scene.
- d. Someone matching his genetic fingerprint was at the crime scene.
- 92. What does the forensic DNA analysis say most clearly about Suspect #1?
- 93. What does the forensic DNA analysis say most clearly about Suspect #2?

Match the pictures below with the correct name of the step in the process of PCR or with the correct description of that step:



- \_\_\_\_ 94. This step is called "Denaturing"
  - \_ 95. This step is called "Annealing"
- \_\_\_ 96. This step is called "Extension"
  - 97. In this step, the DNA molecule is heated up in an effort to cause the two backbones to separate from one another.
  - 98. In this step, The primers are bonding to the template DNA.
- 99. In this step, the individual nucleotides are being added to complete the copy of the template DNA.

### **Biotech Term 3 Test Answer Section**

### TRUE/FALSE

1.	ANS:	F	PTS:	1
2.	ANS:	F	PTS:	1
3.	ANS:	T	PTS:	1
4.	ANS:	F	PTS:	1
5.	ANS:	Т	PTS:	1

### MULTIPLE CHOICE

6.	ANS:		PTS:	1 DIF: B	OBJ:	13-3
	NAT:	F4   F5   F6	STA:	BS.4.3.a   BS.4.3.b		
7.	ANS:	A	PTS:	1 DIF: A	OBJ:	13-4
	NAT:	F1   F5   F6	STA:	1 DIF: A C BS.4.3.a   BS.4.3.b   BS.4.3.c		
8.					OBJ:	13-4
	NAT:		STA:	BS.4.3.a   BS.4.3.b   BS.4.3.c		
9.	ANS:		PTS:	1 DIF: B	OBJ:	13-3
				BS.4.3.a   BS.4.3.b		
10.	ANS:		PTS:	1 DIF: A	)BJ:	13-2
	NAT:	F1   G1   G2	STA:	BS.4.3.a   BS.4.3.b		
11.	ANS:		PTS:		OBJ:	13-3
	NAT:	F4   F5   F6	STA:	BS.4.3.a   BS.4.3.b		
12.	ANS:	C	PTS:	1 DIF: B C BS.4.3.a   BS.4.3.b	OBJ:	13-3
	NAT:	F4   F5   F6	STA:	BS.4.3.a   BS.4.3.b		
13.	ANS:				)BJ:	13-5
	NAT:			BS.4.3.a   BS.4.3.b   BS.4.3.c		
14.	ANS:	В	PTS:	1		
	ANS:		PTS:	1		
16.	ANS:	C	PTS:	1		
17.	ANS:	C	PTS:	1		
18.	ANS:	В	PTS:	1		
19.	ANS:	F	PTS:	1		
20.	ANS:	D	PTS:	1		
21.	ANS:	C	PTS:	1		
22.	ANS:	D	PTS:	1		
23.	ANS:	D	PTS:	1		
24.	ANS:	В	PTS:	1		
25.	ANS:	D	PTS:	1		
26.	ANS:	C	PTS:	1		
27.	ANS:	В	PTS:	1		
28.	ANS:	A	PTS:	1		
29.	ANS:	D	PTS:	1		
30.			PTS:	1		

31.	ANS:	D	PTS:	1
32.	ANS:	A	PTS:	1
33.	ANS:	В	PTS:	1
34.	ANS:	В	PTS:	1
35.	ANS:	C	PTS:	1
36.	ANS:	A	PTS:	1
37.	ANS:	D	PTS:	1
38.	ANS:	D	PTS:	1
39.	ANS:	C	PTS:	1
40.	ANS:	В	PTS:	1
41.	ANS:	D	PTS:	1
42.	ANS:	D	PTS:	1
43.	ANS:	A	PTS:	1
44.	ANS:	В	PTS:	1
45.	ANS:	A	PTS:	1
46.	ANS:	A	PTS:	1
47.	ANS:	C	PTS:	1
48.	ANS:	В	PTS:	1
49.	ANS:	C	PTS:	1
50.	ANS:	В	PTS:	1
51.	ANS:	A	PTS:	1
52.	ANS:	В	PTS:	1
53.	ANS:	D	PTS:	1
54.	ANS:	В	PTS:	1
55.	ANS:	C	PTS:	1
56.	ANS:	В	PTS:	1
57.	ANS:	В	PTS:	1
58.	ANS:	C	PTS:	1
59.	ANS:	A	PTS:	1
60.	ANS:	В	PTS:	1
61.			PTS:	1
62.	ANS:	C	PTS:	1
63.	ANS:	C	PTS:	1

### MULTIPLE RESPONSE

64.	ANS:	A, C, E	PTS:	1
65.	ANS:	C, F, H	PTS:	1

### MATCHING

66.	ANS:	C	PTS:	1
67.	ANS:	A	PTS:	1
68.	ANS:	В	PTS:	1
69.	ANS:	D	PTS:	1
70.	ANS:	E	PTS:	1

71.	ANS:	F	PTS:	1
72.	ANS:	G	PTS:	1
73.	ANS:	В	PTS:	1
74.	ANS:	C	PTS:	1
75.	ANS:	A	PTS:	1
76.	ANS:	В	PTS:	1
77.	ANS:	C	PTS:	1
78.	ANS:	A	PTS:	1
79.	ANS:	В	PTS:	1
	ANS:		PTS:	1
81.	ANS:	В	PTS:	1
82.	ANS:	C	PTS:	1
	ANS:		PTS:	1
84.	ANS:	A	PTS:	1
85.	ANS:	C	PTS:	1
	ANS:		PTS:	1
87.	ANS:	J	PTS:	1
88.	ANS:	L	PTS:	1
89.	ANS:	R	PTS:	1
90.	ANS:	В	PTS:	1
91.	ANS:	A	PTS:	1
92.	ANS:	D	PTS:	
93.	ANS:	C	PTS:	1
	ANS:		PTS:	
	ANS:		PTS:	1
96.	ANS:	В	PTS:	1
97.	ANS:	A	PTS:	1
98.	ANS:	C	PTS:	1
99.	ANS:	В	PTS:	1