

**SUBJECTIVE SCORE
INSTRUCTOR USE ONLY**

100	90	80	70	60
50	40	30	20	10
9	8	7	6	5
4	3	2	1	0

PART 1

(T) (F) KEY

100 90 80 70 60
50 40 30 20 10
9 8 7 6 5
4 3 2 1 0

- 1 [A] [B] [C] [D] [E]
- 2 [A] [B] [C] [D] [E]
- 3 [A] [B] [C] [D] [E]
- 4 [A] [B] [C] [D] [E]
- 5 [A] [B] [C] [D] [E]
- 6 [A] [B] [C] [D] [E]
- 7 [A] [B] [C] [D] [E]
- 8 [A] [B] [C] [D] [E]
- 9 [A] [B] [C] [D] [E]
- 10 [A] [B] [C] [D] [E]
- 11 [A] [B] [C] [D] [E]
- 12 [A] [B] [C] [D] [E]
- 13 [A] [B] [C] [D] [E]
- 14 [A] [B] [C] [D] [E]
- 15 [A] [B] [C] [D] [E]
- 16 [A] [B] [C] [D] [E]
- 17 [A] [B] [C] [D] [E]
- 18 [A] [B] [C] [D] [E]
- 19 [A] [B] [C] [D] [E]
- 20 [A] [B] [C] [D] [E]
- 21 [A] [B] [C] [D] [E]
- 22 [A] [B] [C] [D] [E]
- 23 [A] [B] [C] [D] [E]
- 24 [A] [B] [C] [D] [E]
- 25 [A] [B] [C] [D] [E]
- 26 [A] [B] [C] [D] [E]
- 27 [A] [B] [C] [D] [E]
- 28 [A] [B] [C] [D] [E]
- 29 [A] [B] [C] [D] [E]
- 30 [A] [B] [C] [D] [E]
- 31 [A] [B] [C] [D] [E]
- 32 [A] [B] [C] [D] [E]
- 33 [A] [B] [C] [D] [E]
- 34 [A] [B] [C] [D] [E]
- 35 [A] [B] [C] [D] [E]
- 36 [A] [B] [C] [D] [E]
- 37 [A] [B] [C] [D] [E]
- 38 [A] [B] [C] [D] [E]
- 39 [A] [B] [C] [D] [E]
- 40 [A] [B] [C] [D] [E]
- 41 [A] [B] [C] [D] [E]
- 42 [A] [B] [C] [D] [E]
- 43 [A] [B] [C] [D] [E]
- 44 [A] [B] [C] [D] [E]
- 45 [A] [B] [C] [D] [E]
- 46 [A] [B] [C] [D] [E]
- 47 [A] [B] [C] [D] [E]
- 48 [A] [B] [C] [D] [E]
- 49 [A] [B] [C] [D] [E]
- 50 [A] [B] [C] [D] [E]

IMPORTANT

USE NO. 2 PENCIL ONLY

- MAKE DARK MARKS
- ERASE COMPLETELY TO CHANGE
- EXAMPLE: [A] [B] [C] [D] [E]

TO USE SUBJECTIVE SCORE FEATURE:

- Mark total possible subjective points
- Only one mark per line on key
- 150 points maximum

EXAMPLE OF STUDENT SCORE:

100	90	80	70	60
50	40	30	20	10
9	8	7	6	5
4	3	2	1	0

NAME		KEY	
SUBJECT		BML 230	
DATE		Sp 09	
TEST NO.		FINAL	
HOUR			

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TEST RECORD

PART 1	75 + 2
PART 2	EX. 10
TOTAL	150

PART 2

NAME

KEY B10L230

(T) (F) KEY

	(T)	(F)	KEY
51	A	B	D
52	A	B	C
53	A	B	D
54	A	B	D
55	A	B	C
56	A	B	D
57	A	B	C
58	A	B	C
59	A	B	C
60	A	B	C
61	A	B	C
62	A	B	C
63	A	B	D
64	A	B	C
65	A	B	C
66	A	B	D
67	A	B	C
68	A	B	C
69	A	B	D
70	A	B	C
71	A	B	C
72	A	B	C
73	A	B	C
74	A	B	C
75	A	B	C
76	A	B	C
77	A	B	C
78	A	B	C
79	A	B	C
80	A	B	C
81	A	B	C
82	A	B	C
83	A	B	C
84	A	B	C
85	A	B	C
86	A	B	C
87	A	B	C
88	A	B	C
89	A	B	C
90	A	B	C
91	A	B	C
92	A	B	C
93	A	B	C
94	A	B	C
95	A	B	C
96	A	B	C
97	A	B	C
98	A	B	C
99	A	B	C
100	A	B	C

FEED THIS DIRECTION

23



Extra credit. Write your name on this last page and turn it in with your Scantron form.

76. On March 19, a 28-year-old California man complained of headache and vomiting when he arrived at a Chico hospital. He was taken off life support on March 23. The Centers for Disease Control and Prevention confirmed that the cause of death was rabies from a bat. Rabiesvirus is an RNA virus identified from viral RNA in from formalin-fixed brain tissue.

The viral RNA is reverse transcribed; what does this produce? cDNA

This product is amplified by PCR

The nucleotide sequence identified a viral variant associated with Mexican free-tail bats. What procedure was used to identify the nucleotide sequence?

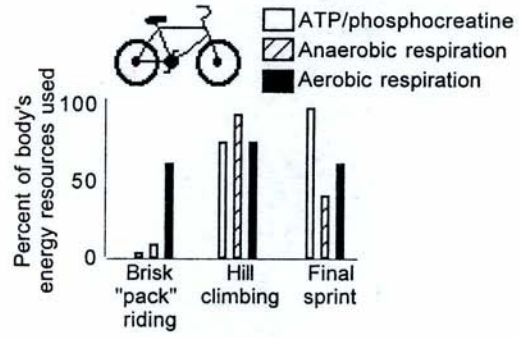
Southern blotting (3 points)

77. People born with Werner syndrome start the decline to old age in their twenties. First, they sport gray hair and wrinkles. Then, a raft of diseases starts to hit. Few people with the syndrome survive to age 50. Recently, scientists discovered that telomerase reverses the effect in cell cultures? Briefly explain why? (4 points)

The shortening chromosomes must be causing premature cell death.

78. The figure shown to the right is in a textbook describing human energy generation. What is wrong with this figure? (3)

Human cells cannot use anaerobic respiration,



Different Activities, Different Energy Sources

Do not write below the line.