

# FOR TEACHERS ONLY

# Bio

The University of the State of New York  
REGENTS HIGH SCHOOL EXAMINATION

## BIOLOGY

Wednesday, January 28, 1998—9:15 a.m. to 12:15 p.m., only

### SCORING KEY

#### Part I

Refer to the table on the answer paper for the number of credits to be given on Part I.

#### Part I (65 credits)

1	1	2	X	4	21	X	2	3	4	41	1	X	3	4
2	1	2	3	X	22	1	2	X	4	42	1	2	3	X
3	X	2	3	4	23	X	2	3	4	43	1	2	X	4
4	X	2	3	4	24	1	2	3	X	44	1	2	X	4
5	1	X	3	4	25	1	2	3	X	45	1	X	3	4
6	1	2	3	X	26	X	2	3	4	46	1	2	3	X
7	1	X	3	4	27	X	2	3	4	47	1	2	X	4
8	1	2	X	4	28	1	X	3	4	48	X	2	3	4
9	1	X	3	4	29	1	2	X	4	49	1	X	3	4
10	1	2	3	X	30	1	X	3	4	50	X	2	3	4
11	1	2	X	4	31	1	2	3	X	51	1	2	3	X
12	X	2	3	4	32	1	2	X	4	52	1	2	3	X
13	1	2	X	4	33	1	X	3	4	53	1	X	3	4
14	1	X	3	4	34	1	2	3	X	54	X	2	3	4
15	1	X	3	4	35	X	2	3	4	55	1	X	3	4
16	X	2	3	4	36	1	2	3	X	56	1	2	3	X
17	1	2	3	X	37	1	2	X	4	57	1	2	X	4
18	1	X	3	4	38	X	2	3	4	58	1	X	3	4
19	1	X	3	4	39	1	X	3	4	59	X	2	3	4
20	1	2	X	4	40	1	2	X	4					

#### Directions to the Teacher:

Use only *red* ink or *red* pencil in rating Regents examination papers. Do *not* correct the student's work by making insertions or changes of any kind.

Scan each answer paper to make certain that the student has marked only one answer for each question. If a student has marked two or more answers with an X in ink, draw a red line through the row of numbers for that question to indicate that no credit is to be allowed for that question when the answer paper is scored.

To facilitate scoring, the scoring key has been printed in the same format as the answer paper. The scoring key for **Part I** and **Part II** may be made into a scoring stencil by punching out the correct answers. Be sure that the stencil is aligned with the answer paper so that the holes correspond to the correct answers. To aid in proper alignment, punch out the first and last item numbers in each part and place the stencil on the answer paper so that these item numbers appear through the appropriate holes.

BIOLOGY — *continued*

Part II

Allow a total of 20 credits, one credit for each question, for only two of the five groups in this part. If more than two groups are answered, only the first two should be considered.

Group 1 Biochemistry					
60	X	2	3	4	
61	1	2	3	X	
62	1	2	X	4	
63	X	2	3	4	
64	1	X	3	4	
65	1	X	3	4	
66	X	2	3	4	
67	1	X	3	4	5
68	1	2	X	4	5
69	1	2	3	X	

Group 3 Reproduction and Development				
80	1	2	3	X
81	1	X	3	4
82	X	2	3	4
83	1	2	X	4
84	1	X	3	4
85	1	X	3	4
86	1	2	X	4
87	1	2	X	4
88	X	2	3	4
89	1	2	3	X

Group 5 Ecology					
100	1	2	X		
101	1	X	3		
102	1	2	X		
103	X	2	3	4	
104	1	2	3	X	
105	X	2	3	4	5 6
106	1	2	3	4	5 X
107	1	2	3	4	X 6
108	1	X	3	4	
109	1	2	X	4	

Group 2 Human Physiology				
70	1	2	X	4
71	1	2	X	4
72	X	2	3	4
73	1	X	3	4
74	X	2	3	4
75	1	2	X	4
76	1	2	3	X
77	1	X	3	4
78	1	2	3	X
79	1	X	3	4

Group 4 Modern Genetics				
90	1	X	3	4
91	X	2	3	4
92	1	2	3	X
93	1	X	3	4
94	1	2	3	X
95	X	2	3	4
96	1	2	X	4
97	1	X	3	4
98	1	2	X	4
99	1	2	3	X

**Part III**

Allow a total of 15 credits for only three of the five groups in this part. If all five groups are answered, only the first three should be considered.

**Group 1**

- 110 X 2 3 4  
 111 1 X 3 4  
 112 1 2 3 X

The answers below represent sample responses. Other complete-sentence responses are acceptable. Allow no partial credit.

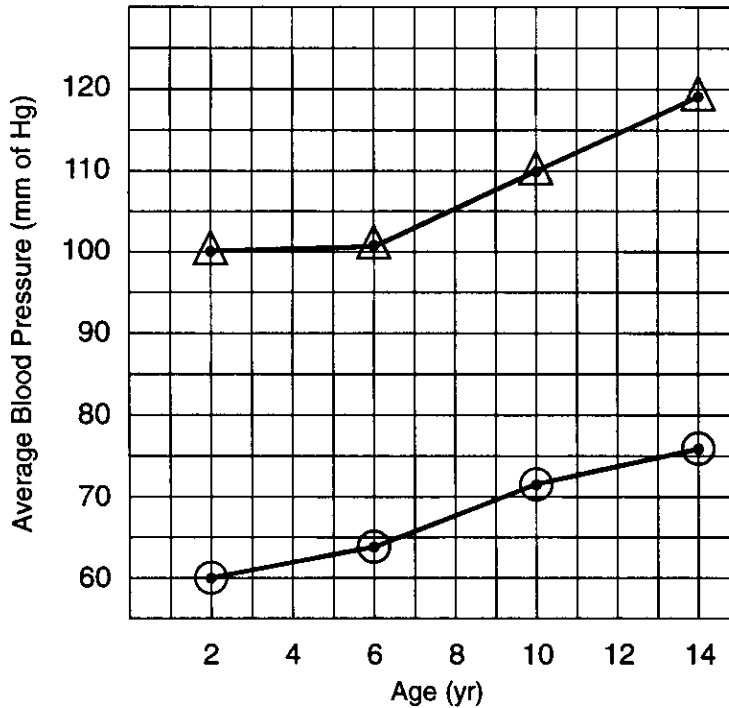
113 Using the fine adjustment to focus the high-power objective prevents damage to the lens and slide preparation.

114 Structure X is used to regulate the amount of light passing through a specimen.

**Group 2**

115 – 117

The Effect of Age on Human Blood Pressure



Key  
 ▲ Systolic blood pressure  
 ● Diastolic blood pressure

The answers below represent sample responses. Other complete-sentence responses are acceptable. Allow no partial credit.

- 118 Systolic pressure is higher than diastolic pressure.  
 or  
 Both systolic pressure and diastolic pressure increase between the ages of 2 and 14.
- 119 A It stores food.  
 B It grinds food.  
 or  
 It is used for mechanical digestion.  
 C It digests food chemically.

**Rating instructions for questions 115–117.**

- 115 Allow one credit for marking an appropriate scale on each axis.
- 116 Allow one credit for plotting the data correctly, surrounding each point with a small triangle, and connecting the points.
- 117 Allow one credit for plotting the data correctly, surrounding each point with a small circle, and connecting the points.

BIOLOGY — *concluded*

**Group 3**

<b>120</b>	1	2	3	<b>X</b>
<b>121</b>	1	2	3	<b>X</b>
<b>122</b>	1	<b>X</b>	3	4
<b>123</b>	1	2	<b>X</b>	4
<b>124</b>	<b>X</b>	2	3	4

**Group 4**

<b>125</b>	1	2	3	<b>X</b>
<b>126</b>	1	2	<b>X</b>	4
<b>127</b>	<b>X</b>	2	3	4
<b>128</b>	1	<b>X</b>	3	4
<b>129</b>	1	2	3	<b>X</b>

**Group 5**

<b>130</b>	1	2	<b>X</b>	4
<b>131</b>	<b>X</b>	2	3	4
<b>132</b>	1	<b>X</b>	3	4
<b>133</b>	1	2	3	<b>X</b>

The answers below represent sample responses. Other complete-sentence responses are acceptable. Allow no partial credit.

**134** Goggles should be worn.  
*or*  
Gloves should be worn.