FOR TEACHERS ONLY

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

PS-ES PHYSICAL SETTING/EARTH SCIENCE

Wednesday, August 13, 2003 — 12:30 p.m. to 3:30 p.m., only

SCORING KEY AND RATING GUIDE

Directions to the Teacher:

Refer to the directions on page 3 before rating student papers.

Part A and Part B-1 Allow 1 credit for each correct response

	Part A		Part	: B–1
1 ?	13 . 4	25 3	36 2	44 1
2 4	₁₄ 1	26 3	37 3	45 2
3 1	15 2	27 4	38 2	46 . 3
41	16 .4	28 4	39 .4	47 3
5 3	17 1	29 3	401	48 4
61	18 3	30 3	41 2	49 2
7 1	19 3	31 4	42 3	50 1
8 . 2	20 3	32 1	43 2	
92	21 . 4	33 1		
10 2	22 1	34 2		
11 1	23 2	35 4		
12 . 4	24 4			

[1] [OVER]

Directions to the Teacher

Follow the procedures below for scoring student answer papers for the Physical Setting/Earth Science examination. Additional information about scoring is provided in the publication *Information for Administering and Scoring Regents Examinations in the Sciences*.

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

On the detachable answer sheet for Part A and Part B–1, indicate by means of a checkmark each incorrect or omitted answer. In the box provided at the end of each part, record the number of questions the student answered correctly for that part.

At least two science teachers must participate in the scoring of each student's responses to the Part B–2 and Part C open-ended questions. Each of these teachers should be responsible for scoring a selected number of the open-ended questions on each answer paper. No one teacher is to score all the open-ended questions on a student's answer paper.

Student's responses must be scored strictly according to the Scoring Key and Rating Guide. For open-ended questions, credit may be allowed for responses other than those given in the rating guide if the response is a scientifically accurate answer to the question and demonstrates adequate knowledge as indicated by the examples in the rating guide. In the student's answer booklet, record the number of credits earned for each answer in the box printed to the right of the answer lines or spaces for that question.

Fractional credit is *not* allowed. Only whole-number credit may be given to a response. Units need not be given when the wording of the questions allows such omissions.

Raters should enter the scores earned for Part A, Part B–1, Part B–2, and Part C on the appropriate lines in the box printed on the answer booklet and then should add these four scores and enter the total in the box labeled "Total Written Test Score." The student's score for the Earth Science Performance Test should be entered in the space provided. Then, the student's raw scores on the performance test and written test should be converted to a scaled score by using the conversion chart printed at the end of this Scoring Key and Rating Guide. The student's scaled score should be entered in the labeled box on the student's answer booklet. The scaled score is the student's final examination score.

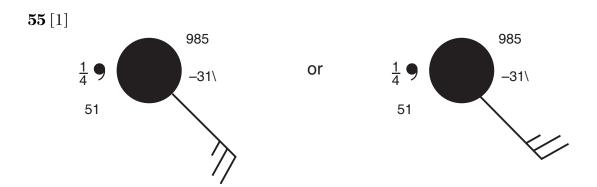
All student answer papers that receive a scaled score of 60 through 64 **must** be scored a second time. For the second scoring, a different committee of teachers may score the student's paper or the original committee may score the paper, except that no teacher may score the same open-ended questions that he/she scored in the first rating of the paper. The school principal is responsible for assuring that the student's final examination score is based on a fair, accurate, and reliable scoring of the student's answer paper.

Because scaled scores corresponding to raw scores in the conversion chart may change from one examination to another, it is crucial that for each administration, the conversion chart provided in the scoring key for that administration be used to determine the student's final score. The chart in this scoring key is usable only for this administration of the examination.

[3] [OVER]

Part B-2

- **51**[1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:
 - The farther a planet is from the Sun, the longer the planet takes to complete one orbit around the Sun.
 - direct relationship
- **52** [1] Allow 1 credit for **winter**.
- **53** [1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:
 - September 21
 - September 22
 - September 23
 - September 24
 - autumnal equinox
 - first day of fall
- $\mathbf{54}$ [1] Allow 1 credit for $\mathbf{47}$ degrees.



Allow 1 credit for correct symbols of both the wind direction and wind speed.

56 [1] Allow 1 credit for **998.5** millibars.

57 [2] *a* Allow 1 credit for **drizzle**.

Note: Do *not* allow credit for rain.

b Allow 1 credit for a correct response. Responses must include both a weather condition and a correct explanation to receive credit. Acceptable responses include, but are not limited to, these examples:

Weather Condition	Explanation
100% cloud cover	indicates that saturated air has condensed
low visibility $(\frac{1}{4} \text{ mile})$	is most likely caused by water droplets in the air
low air pressure	because humid air is less dense than dry air
Air pressure decreased	This change may indicate that moist air has
during the last 3 hours.	arrived.

58 [2] Allow 1 credit for **50** (\pm 3).

and

Allow 1 credit for the correct unit **feet per mile** or **ft/mi.**

Note: Do *not* allow credit for ft/m.

59 [1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

Contour lines that cross the Green River bend in the opposite direction of river flow.

Contour lines bend upstream when crossing the Green River.

Contour lines that cross the river form V-shapes. The point of each V-shape indicates the uphill or upstream direction.

60 [1] Allow 1 credit for **D**.

61 [1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

Contour lines are extremely close together.

The most closely spaced contour lines indicate the steepest gradient.

[5] [OVER]

Physical Setting/Earth Science – continued

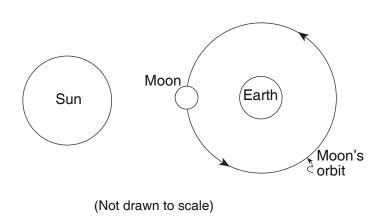
- **62** [1] Allow 1 credit for **20° south** ($\pm 8^{\circ}$). The correct compass direction must be included.
- **63** [1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

Water has a higher specific heat than the land.

Water takes a longer time to heat up and cool down than land.

Part C

64 [1]



Allow 1 credit for drawing the Moon on the orbit directly between the Sun and Earth.

- **65** [1] Allow 1 credit for **1** or **1.1** revolution.
- **66** [1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

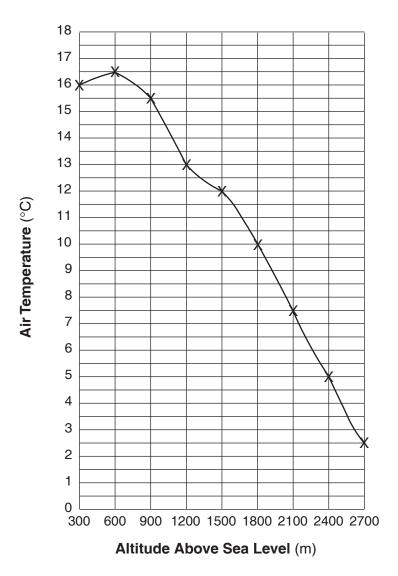
The Moon's orbit around Earth is *not* always in the same plane as Earth's orbit around the Sun.

The Moon usually passes above or below the Sun as seen from Earth.

The Sun, Moon, and Earth are only occasionally aligned in a straight line.

[7] [OVER]

67 [2]



Allow 1 credit for correctly plotting seven or more points, even if **X**s are not used.

and

Allow 1 credit for correctly connecting the plotted \mathbf{X} s or points, even if they are plotted incorrectly.

68 [1] Allow 1 credit for **barometer** or **altimeter**.

PHYSICAL SETTING/EARTH SCIENCE – continued

69 [1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

inverse realtionship

indirect relationship

As elevation increases, air pressure decreases.

- **70** [1] Allow 1 credit for **100**% relative humidity.
- **71** [1] Allow 1 credit for **troposphere**.
- **72** [1] Allow 1 credit for a correct response. Acceptable responses range from 7.0×10^{-5} to 5.0×10^{-2} according to the *Earth Science Reference Tables*. Acceptable responses include, but are not limited to, these examples:

 $0.0001 \ or \ 0.001 \ or \ 0.01$

$$10^{-4} \ or \ 10^{-3} \ or \ 10^{-2}$$

73 [1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, this example:

An increase in global temperatures will cause glaciers and continental ice sheets to gradually melt.

74 [1] Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

Pass a law to limit greenhouse gas emissions.

Stop burning the rain forests.

Increase car pool/mass transit use.

- **75** [1] Allow 1 credit for **siltstone**.
- **76** [1] Allow 1 credit for **pumice**.

[9] [OVER]

PHYSICAL SETTING/EARTH SCIENCE – continued

77 [1] Allow 1 credit for *two* correct responses. Acceptable responses include, but are not limited to, these examples:

Granite is lighter in color than gabbro.

Granite is less dense than gabbro.

Granite's composition is more felsic, while gabbro's composition is more mafic.

Granite contains the minerals potassium feldspar and quartz; gabbro does not.

78 [1] Allow 1 credit for **gneiss**.

79 [2] *a* Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

large ocean wave or series of ocean waves generated by an earthquake

wave caused by an earthquake

Note: Accept the commonly used term *tidal wave*, but do *not* accept the response that tsunamis are caused by tides.

b Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

flooding

bringing in sand deposits

destruction of coastal property

PHYSICAL SETTING/EARTH SCIENCE – concluded

80 [2] a Allow 1 credit for Juan de Fuca Plate and North American Plate.

 ${m b}$ Allow 1 credit for a correct response. Acceptable responses include, but are not limited to, these examples:

subduction zone

convergent plate boundary

or

Allow 1 credit for a response that is consistent with the student's answer for 80a.

Note: Do not allow credit for thrust faults.

PHYSICAL SETTING/EARTH SCIENCE – continued

Regents Examination in Physical Setting/Earth Science - August 2003

CHART FOR DETERMINING THE FINAL EXAMINATION SCORE (USE FOR AUGUST 2003 EXAMINATION ONLY.)

To determine the student's final examination score, locate the student's total performance test score across the top of the chart and the student's total written test score down the side of the chart. The point where those two scores intersect is the student's final examination score. For example, a student receiving a total performance test score of 14 and a total written test score of 68 would receive a final examination score of 84.

Total Performance Test Score

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Regents Examination in Physical Setting/Earth Science – August 2003

CHART FOR DETERMINING THE FINAL EXAMINATION SCORE (USE FOR AUGUST 2003 EXAMINATION ONLY.)

Total Performance Test Score

							To	tal	Per	fori	mar	nce	Tes	st S	cor	е								
	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
43	67	66	65	64	64	64	63	63	63	62	62	61	60	60	59	59	58	57	56	55	55	54	53	52
42	66	65	64	63	63	63	63	62	62	61	61	60	60	59	58	58	57	56	55	55	54	53	52	51
41	64	63	62	62	62	61	61	60	60	60	59	59	58	57	57	56	55	55	54	53	52	51	50	49
40	63	62	61	61	61	60	60	60	59	59	58	58	57	56	56	55	54	54	53	52	51	50	49	48
39	63	62	60	60	60	59	59	59	58	58	57	57	56	56	55	54	54	53	52	51	50	49	49	48
38	62	61	60	59	59	59	58	58	57	57	57	56	55	55	54	53	53	52	51	50	50	49	48	47
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Total Written Test Score

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