

# PHYSICAL SETTING EARTH SCIENCE

Wednesday, August 20, 2025 — 8:30 to 11:30 a.m., only

The possession or use of any communications device is strictly prohibited when taking this examination. If you have or use any communications device, no matter how briefly, your examination will be invalidated and no score will be calculated for you.

Use your knowledge of Earth science to answer all questions in this examination. Before you begin this examination, you must be provided with the *2011 Edition Reference Tables for Physical Setting/Earth Science*. You will need these reference tables to answer some of the questions.

You are to answer all questions in all parts of this examination. You may use scrap paper to work out the answers to the questions, but be sure to record your answers on your answer sheet and in your answer booklet. A separate answer sheet for Part A and Part B–1 has been provided to you. Follow the instructions from the proctor for completing the student information on your answer sheet. Record your answers to the Part A and Part B–1 multiple-choice questions on this separate answer sheet. Record your answers for the questions in Part B–2 and Part C in your separate answer booklet. Be sure to fill in the heading on the front of your answer booklet.

All answers in your answer booklet should be written in pen, except for graphs and drawings, which should be done in pencil.

When you have completed the examination, you must sign the declaration printed on your separate answer sheet, indicating that you had no unlawful knowledge of the questions or answers prior to the examination and that you have neither given nor received assistance in answering any of the questions during the examination. Your answer sheet and answer booklet cannot be accepted if you fail to sign this declaration.

**Notice ...**

A four-function or scientific calculator and a copy of the *2011 Edition Reference Tables for Physical Setting/Earth Science* must be available for you to use while taking this examination.

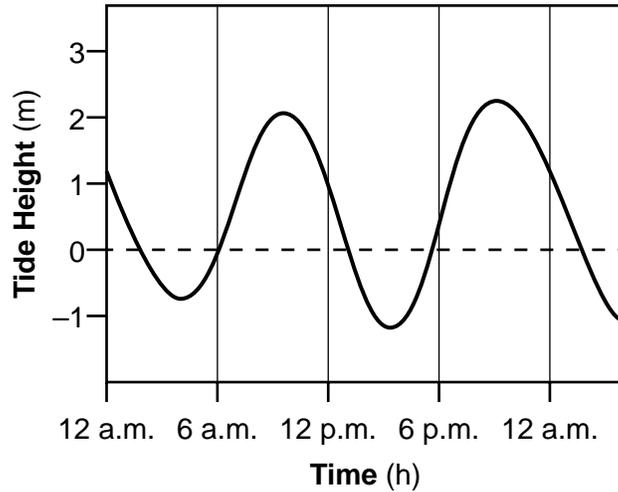
**DO NOT OPEN THIS EXAMINATION BOOKLET UNTIL THE SIGNAL IS GIVEN.**

**Part A**

**Answer all questions in this part.**

*Directions (1–35):* For *each* statement or question, choose the word or expression that, of those given, best completes the statement or answers the question. Some questions may require the use of the *2011 Edition Reference Tables for Physical Setting/Earth Science*. Record your answers on your separate answer sheet.

1 A graph of tidal height changes in sea level are shown below.



The number of hours from one low tide to the next low tide is approximately

- (1) 6 h
- (2) 12 h
- (3) 18 h
- (4) 24 h

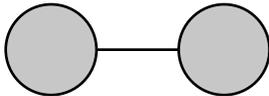
2 The circles below represent celestial objects made of the same uniform material. The line represents the distance between them. Between which two objects is the gravitational attraction the greatest?



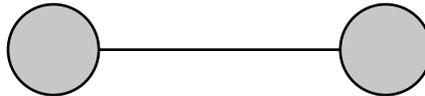
(1)



(3)



(2)



(4)

- 3 Observations of wavelengths of light emitted from most galaxies show a shift toward the
- (1) red end of the visible spectrum, indicating that galaxies are moving away from Earth
  - (2) red end of the visible spectrum, indicating that galaxies are moving toward Earth
  - (3) blue end of the visible spectrum, indicating that galaxies are moving away from Earth
  - (4) blue end of the visible spectrum, indicating that galaxies are moving toward Earth
- 4 The direction of swing of a Foucault pendulum appears to change due to Earth's
- (1) elliptical orbit                      (3) revolution
  - (2) spherical shape                      (4) rotation
- 5 To an observer in New York State, which statement best explains why some constellations viewed in the night sky in winter are different than some constellations viewed in the summer?
- (1) Different seasonal constellations are visible as Earth orbits the Sun.
  - (2) Different seasonal constellations are visible as the Sun orbits Earth.
  - (3) Seasonal constellations orbit the Sun as Earth rotates.
  - (4) Seasonal constellations orbit the Sun as Earth revolves.
- 6 What is the approximate latitude and longitude of Binghamton, New York?
- (1) 42°00' south, 76°05' east
  - (2) 42°05' south, 75°55' east
  - (3) 42°00' north, 76°05' west
  - (4) 42°05' north, 75°55' west
- 7 Earth's rate of revolution around the Sun is approximately
- (1) 1 degree/hour                      (3) 15 degrees/hour
  - (2) 1 degree/day                      (4) 15 degrees/day
- 8 As the infiltration of water increases and becomes stored in the soil, the amount of groundwater
- (1) decreases and the water table rises
  - (2) decreases and the water table lowers
  - (3) increases and the water table rises
  - (4) increases and the water table lowers

- 9 Equal volumes of water were poured through four well-sorted soil samples each containing differently sized particles. Which particle size would have the greatest amount of water retention?
- (1) silt                                      (3) pebbles
  - (2) sand                                      (4) cobbles
- 10 Below are four steps involved in the formation of a cloud.
- A. air expands and air temperature decreases
  - B. air rises upward through the atmosphere
  - C. air temperature equals the dew point
  - D. condensation of excess water vapor
- What is the correct sequence of these steps involved in the formation of a cloud?
- (1) A → B → D → C
  - (2) A → C → B → D
  - (3) B → A → C → D
  - (4) B → D → A → C
- 11 What is the dew point when the relative humidity is 86% and the dry bulb is 28°C?
- (1) 25°C                                      (3) 27°C
  - (2) 26°C                                      (4) 28°C
- 12 Absorption of ultraviolet radiation by ozone gas, mainly found at altitudes between 15 and 30 kilometers, is responsible for warming which layer of Earth's atmosphere?
- (1) troposphere                              (3) mesosphere
  - (2) stratosphere                              (4) thermosphere

- 13 Which forms of electromagnetic energy are listed from shortest to longest wavelength?
- (1) ultraviolet, infrared, red light
  - (2) microwaves, blue light, gamma rays
  - (3) radio waves, infrared, violet light
  - (4) X-rays, green light, microwaves

- 14 Which list of properties explains why basalt absorbs more heat energy and heats up more quickly than an equal volume of water?
- (1) light color, smooth surface, and low specific heat
  - (2) light color, rough surface, and high specific heat
  - (3) dark color, rough surface, and low specific heat
  - (4) dark color, smooth surface, and high specific heat
- 15 Which surface ocean current warms the east coast of South America?
- (1) Brazil Current
  - (2) Falkland Current
  - (3) Gulf Stream Current
  - (4) Peru Current
- 16 Which New York State city is located on bedrock that is between 359 million years old and 416 million years old?
- |                   |                   |
|-------------------|-------------------|
| (1) Massena       | (3) Niagara Falls |
| (2) New York City | (4) Elmira        |
- 17 The **X** shown on the map below represents a location in the state of Texas in North America.



This location was inferred to have been located on the equator approximately

- (1) 75 million years ago
- (2) 140 million years ago
- (3) 260 million years ago
- (4) 500 million years ago

- 18 Which two groups of life-forms became extinct during the same time?
- (1) trilobites and graptolites
  - (2) gastropods and brachiopods
  - (3) euryptends and placoderm fish
  - (4) dinosaurs and ammonoids
- 19 Analysis of seismic waves are used for the determination of the
- (1) frequency of past magnetic pole reversals
  - (2) magnitude of an earthquake
  - (3) rate of tectonic plate motion
  - (4) age of the Mid-Atlantic Ridge
- 20 Which hot spot is located on a divergent plate boundary?
- (1) Hawaii Hot Spot
  - (2) Tasman Hot Spot
  - (3) Bouvet Hot Spot
  - (4) Canary Islands Hot Spot
- 21 Two variables that affect the rate of deposition of sediments in water are
- (1) shape and density
  - (2) shape and luster
  - (3) hardness and density
  - (4) hardness and luster
- 22 Which two chemical elements do selenite gypsum, dolomite, and calcite all have in common?
- (1) hydrogen and oxygen
  - (2) calcium and oxygen
  - (3) hydrogen and magnesium
  - (4) calcium and magnesium

23 Which location will most likely have the *least* runoff during a rainstorm?



(1)



(3)

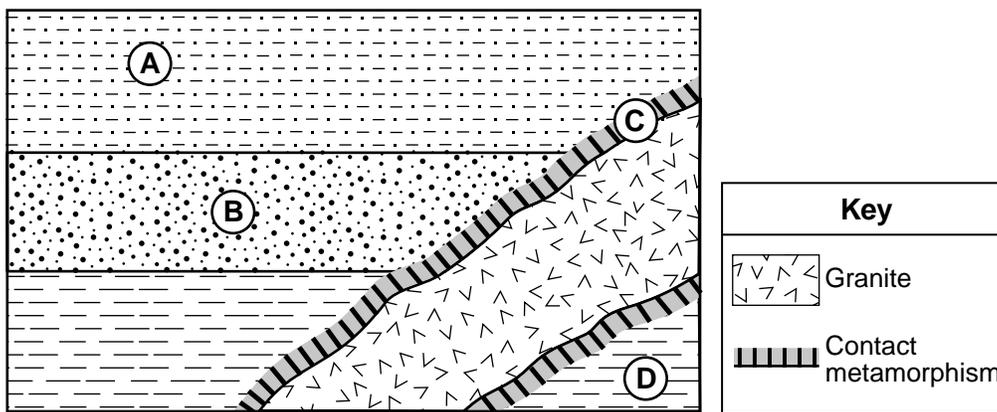


(2)



(4)

24 The cross section below shows rock units labeled A, B, C, and D, which have not been overturned.



(Not drawn to scale)

Which rock unit formed most recently?

- (1) A
- (2) B
- (3) C
- (4) D

25 The first *P*-wave created by an earthquake traveled for 7 minutes before it was recorded at a seismic station. Which table shows both the correct distance between this seismic station and the epicenter of the earthquake and the correct length of time between the arrivals of the first *P*-wave and the first *S*-wave, recorded at this station?

Distance to Epicenter (km)	Time Between First <i>P</i> -wave and First <i>S</i> -wave (minutes: seconds)
1900	3 minutes 0 seconds

(1)

Distance to Epicenter (km)	Time Between First <i>P</i> -wave and First <i>S</i> -wave (minutes: seconds)
4000	5 minutes 40 seconds

(3)

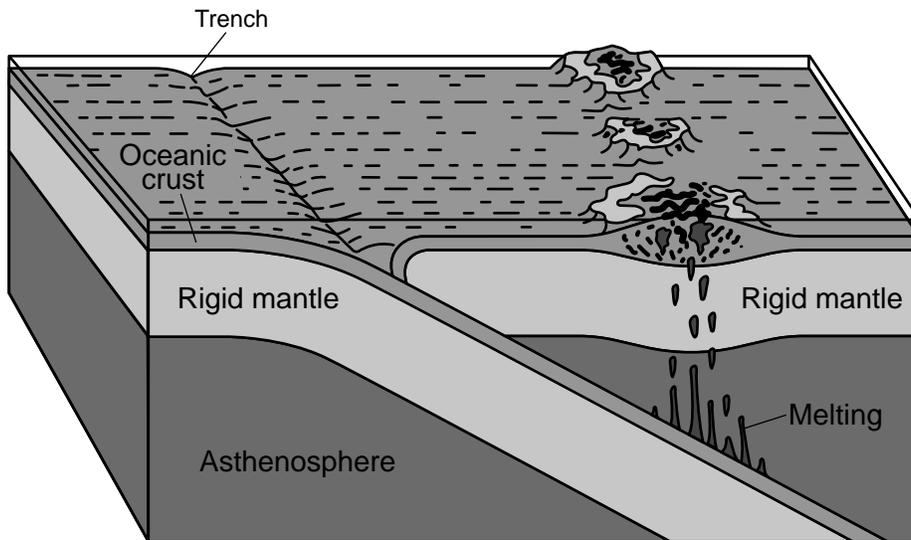
Distance to Epicenter (km)	Time Between First <i>P</i> -wave and First <i>S</i> -wave (minutes: seconds)
1900	6 minutes 40 seconds

(2)

Distance to Epicenter (km)	Time Between First <i>P</i> -wave and First <i>S</i> -wave (minutes: seconds)
4000	12 minutes 40 seconds

(4)

26 The block diagram below shows a tectonic plate boundary.



(Not drawn to scale)

This diagram best represents the boundary between which two tectonic plates?

- (1) Scotia Plate and South American Plate
- (2) Nazca Plate and Antarctic Plate

- (3) African Plate and Indian-Australian Plate
- (4) Philippine Plate and Pacific Plate

27 The photograph below shows a landscape feature found in southwestern United States.



Which type of climate most likely contributes to the continued formation of this landscape feature?

- (1) arid and hot
- (2) arid and cold
- (3) humid and hot
- (4) humid and cold

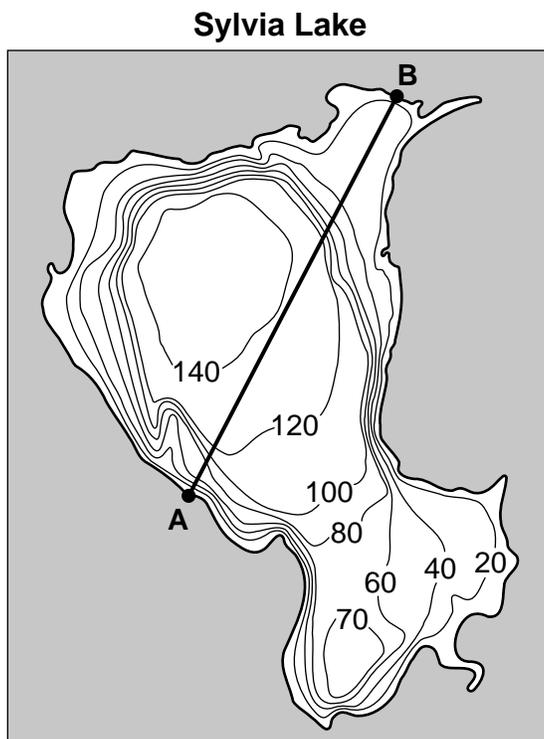
28 The photograph below shows a tree growing in a crack in exposed bedrock.



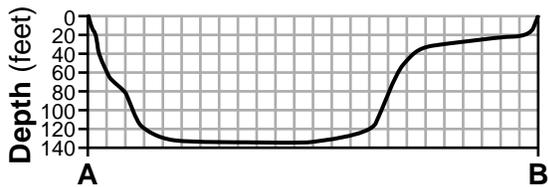
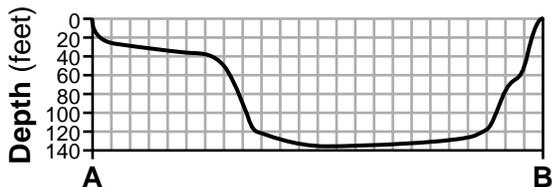
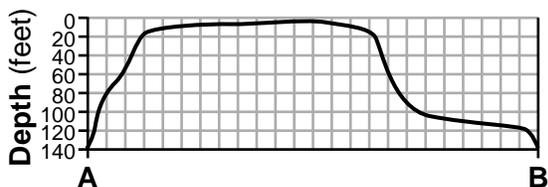
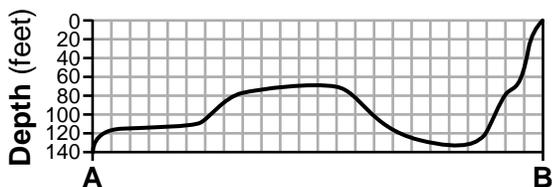
The rock breakage caused by this tree growth is an example of

- (1) deforestation
- (2) mass movement
- (3) physical weathering
- (4) chemical weathering

29 The map below shows Sylvania Lake, located in New York State. Isoline values indicate water depth in feet. Points A and B represent locations on the shoreline of Sylvania Lake.



Which cross section represents an accurate profile of the bottom of Sylvania Lake between points A and B?



30 The photograph below shows a portion of the Niagara Escarpment.

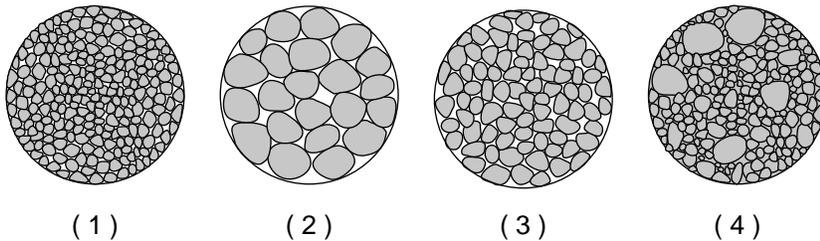


Source: <http://imgc.allpostersimages.com/images/P-488-488-90/75/7581/QUND300Z/posters/jack-brittain-niagara-escarpment.jpg>

The Niagara Escarpment is best described as a

- (1) river valley
- (2) steep cliff
- (3) glacial deposit
- (4) mountain range

31 Which sediment sample was most likely deposited by a glacier?



(1)

(2)

(3)

(4)

(Drawn to scale)

32 The photograph below shows a series of sand dunes.



Which agent of erosion was most likely responsible for the formation of these sand dunes?

- (1) wind
- (2) glacier
- (3) wave action
- (4) running water

33 Which table correctly represents the type of metamorphism and the resulting textures as shale turns into gneiss?

Type of Metamorphism	Texture
Regional	Non-foliated

(1)

Type of Metamorphism	Texture
Regional	Foliated

(3)

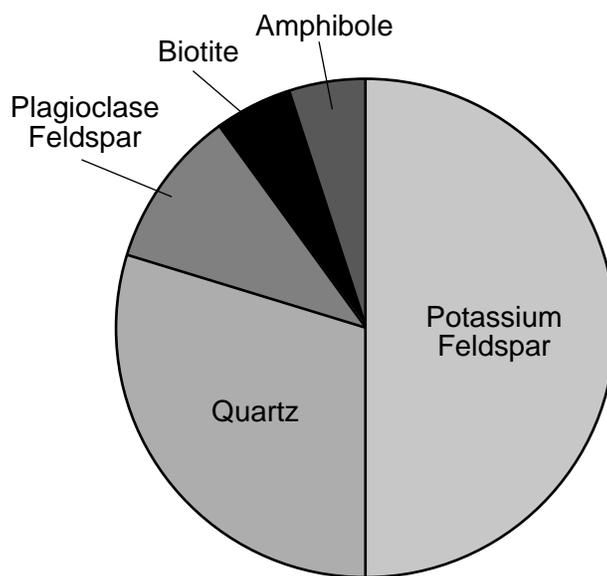
Type of Metamorphism	Texture
Contact	Non-foliated

(2)

Type of Metamorphism	Texture
Contact	Foliated

(4)

34 The pie chart below shows the percentage of each mineral found in a sample of an igneous rock that formed deep underground.



Which igneous rock is represented by the chart?

- (1) granite
- (2) gabbro
- (3) rhyolite
- (4) basalt

35 The photograph below shows a magnified view of a rock.



This rock was most likely produced by

- (1) contact metamorphism
  - (2) compaction and cementation of sediments
  - (3) extreme heat and high pressure
  - (4) melting and solidification of magma
-

## Part B-1

Answer all questions in this part.

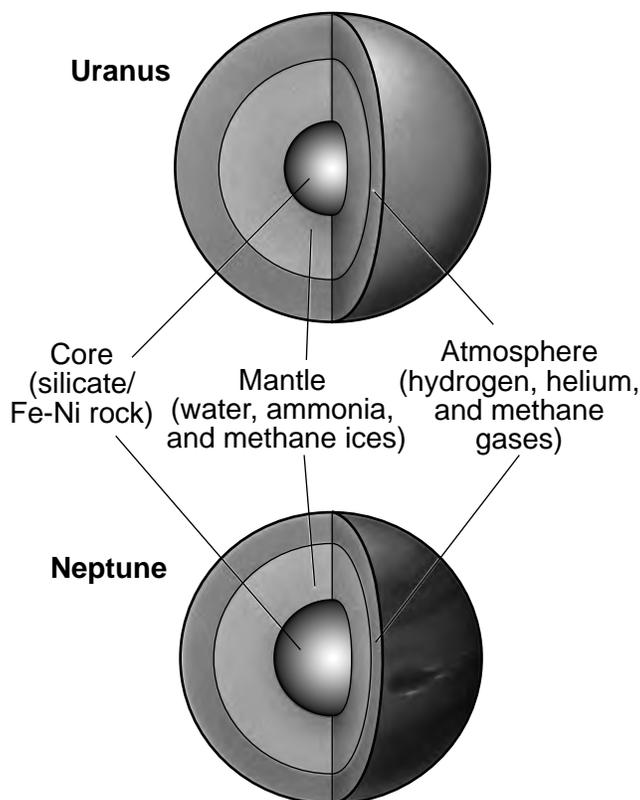
*Directions (36–50):* For *each* statement or question, choose the word or expression that, of those given, best completes the statement or answers the question. Some questions may require the use of the *2011 Edition Reference Tables for Physical Setting/Earth Science*. Record your answers on your separate answer sheet.

Base your answers to questions 36 through 38 on the passage and diagram below and on your knowledge of Earth science. The diagram below represents a general model of the inferred interiors of Uranus and Neptune.

### The Ice Giants

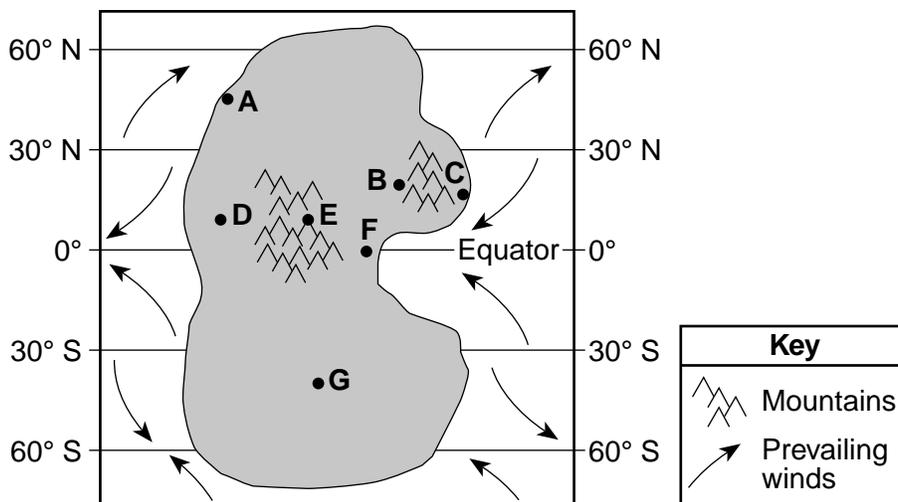
The Voyager 2 satellite passed Uranus in 1986 and Neptune in 1989. When astronomers examined the data, they realized the compositions of Uranus and Neptune were slightly different from the compositions of Jupiter and Saturn. As such, the term “gas giants” could no longer be used to describe Uranus and Neptune. Jupiter and Saturn are composed of mostly hydrogen and helium with only small cores of rock. In contrast to Jupiter and Saturn, data from Voyager 2 revealed that Uranus and Neptune are composed of smaller amounts of the elements hydrogen and helium, and contain a greater percentage of heavier elements such as oxygen, carbon, and nitrogen found in water, ammonia, and methane. While they are still Jovian planets, the term “ice giants” is now commonly used to describe Uranus and Neptune because scientists realized that these two planets were compositionally different from Jupiter and Saturn.

### Inferred Interiors of Uranus and Neptune



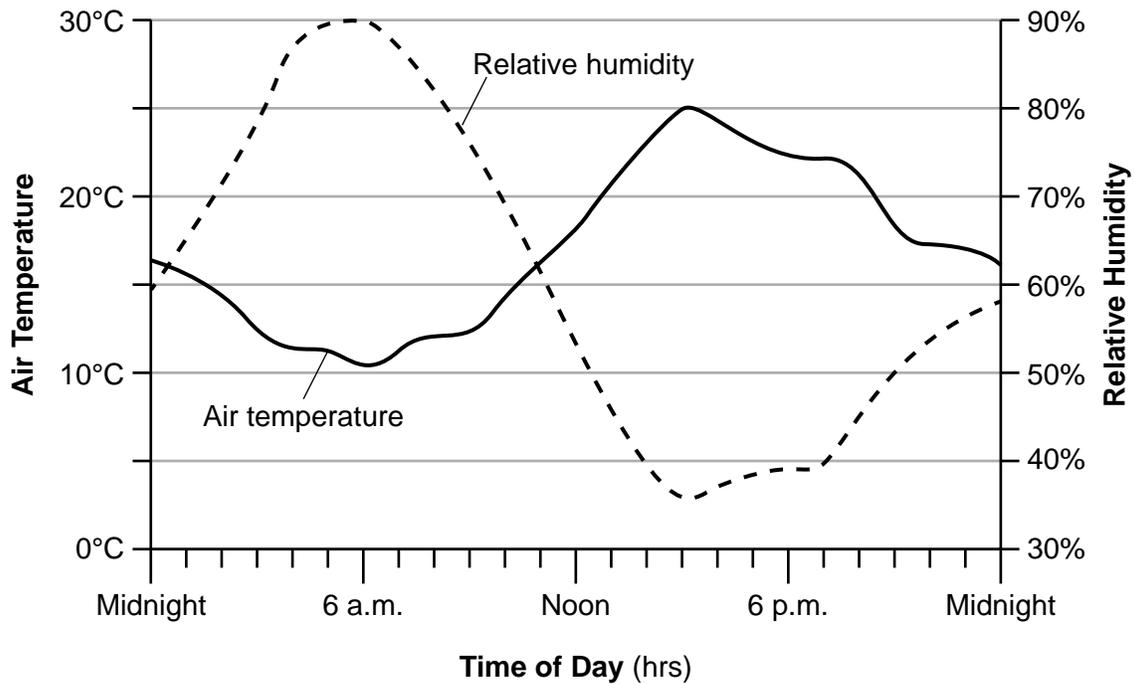
- 36 What caused the interior layering of Uranus and Neptune during their formation?
- (1) density differences and gravity                      (3) tidal forces and gravity  
 (2) density differences and radioactive decay        (4) tidal forces and radioactive decay
- 37 Compared to the mantles of the ice giants, the mantle of Earth is
- (1) less dense and composed of smaller amounts of water  
 (2) less dense and composed of smaller amounts of rock  
 (3) more dense and composed of greater amounts of water  
 (4) more dense and composed of greater amounts of rock
- 38 Which Jovian planet has the slowest orbital velocity and why?
- (1) Jupiter because of its distance from the Sun    (3) Neptune because of its distance from the Sun  
 (2) Jupiter because of its mass                        (4) Neptune because of its mass
- 

Base your answers to questions 39 through 41 on the map below and on your knowledge of Earth science. The map represents an imaginary continent on an Earth-like planet. Two mountain ranges and seven locations, A through G, are shown.



- 39 The climate at location E is most likely
- (1) cool due to its higher elevation                      (3) warm due to its higher elevation  
 (2) cool due to its higher latitude                      (4) warm due to its higher latitude
- 40 Compared to the climate at location G, the climate at location F will most likely be
- (1) cooler and drier    (3) warmer and drier  
 (2) cooler and more humid                                      (4) warmer and more humid
- 41 Which location will most likely have the greatest annual temperature range?
- (1) A    (3) C  
 (2) G    (4) D

Base your answers to questions 42 through 44 on the graph below and on your knowledge of Earth science. The graph shows air temperature and relative humidity recorded over a 24-hour period at a location near Albany, New York.



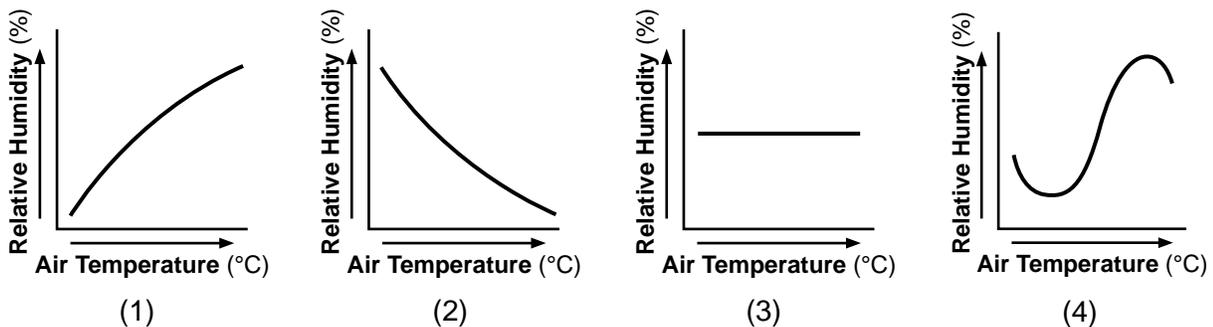
42 The air temperature at noon is closest to

- (1) 12°C
- (2) 17°C
- (3) 54°C
- (4) 67°C

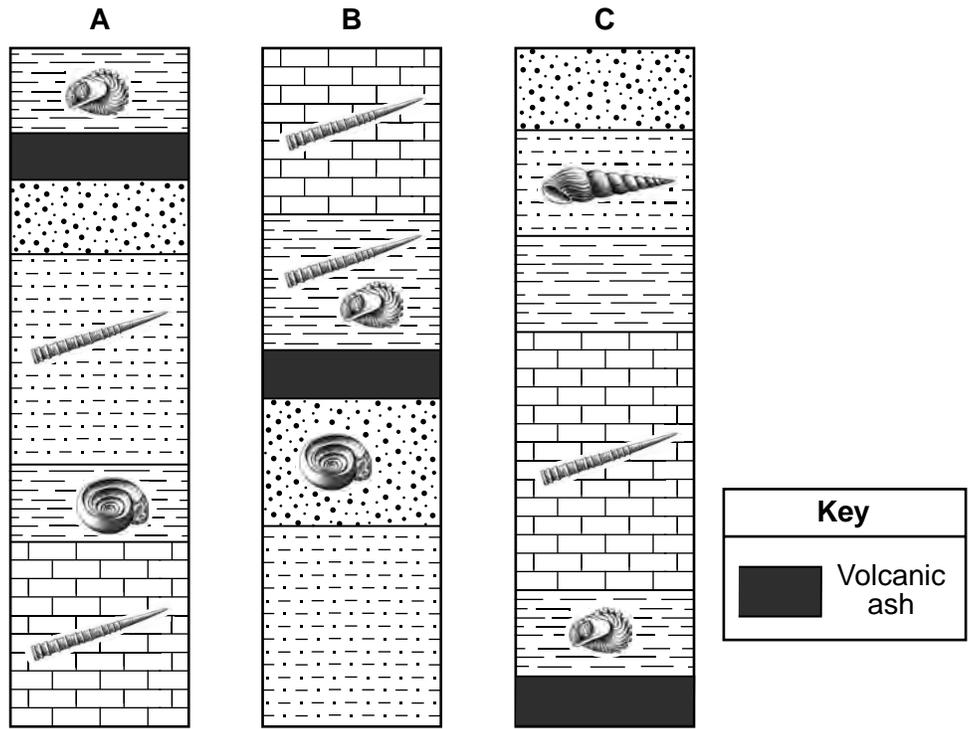
43 Which instrument was used to determine the relative humidity?

- (1) psychrometer
- (2) barometer
- (3) anemometer
- (4) wind vane

44 Which graph best represents the relationship between air temperature and relative humidity shown in this data?



Base your answers to questions 45 through 47 on the cross sections below and on your knowledge of Earth science. The cross sections represent three rock outcrops, labeled A, B, and C, several kilometers apart. The outcrops have *not* been overturned. Some rock layers contain fossils.



45 Which rock layer is the youngest?

- (1) limestone layer in outcrop A
- (2) limestone layer in outcrop B
- (3) sandstone layer in outcrop A
- (4) sandstone layer in outcrop C

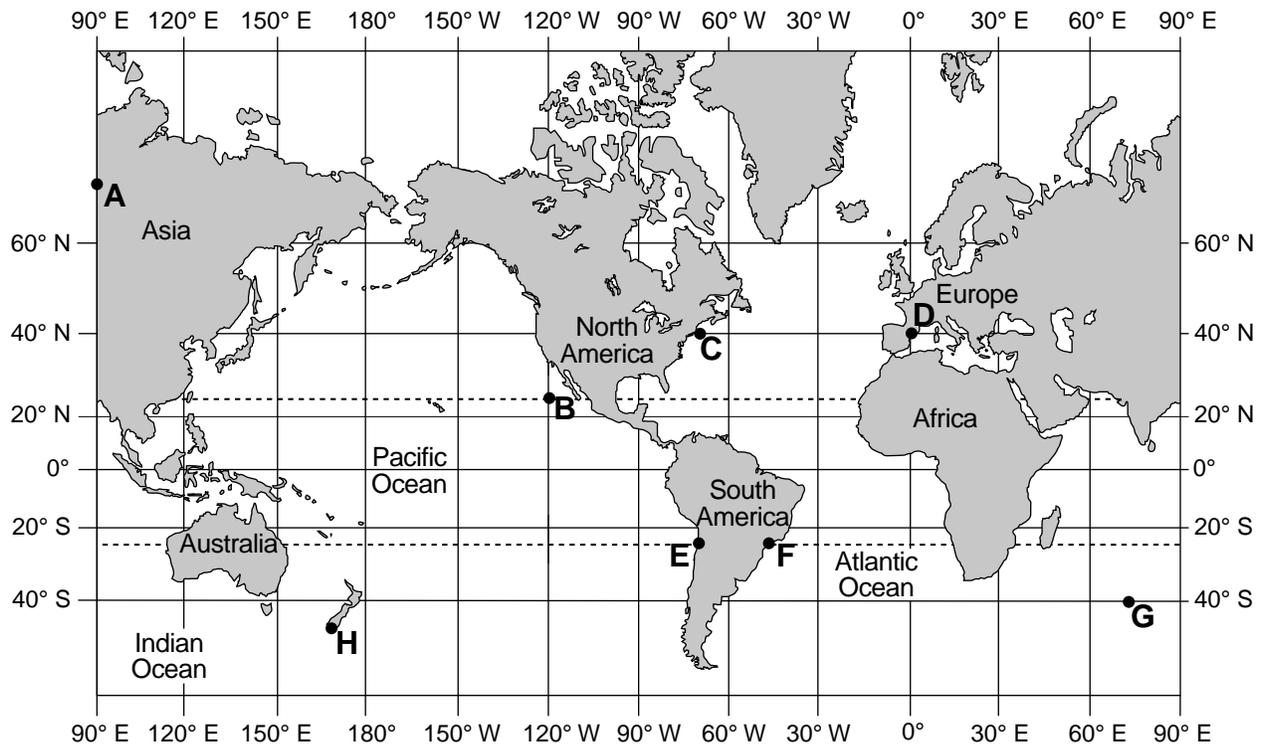
46 Which fossil in these three outcrops would be the best index fossil?



47 Which rock layers formed from the deposition of land-derived sediments with a uniform particle size of 0.001 centimeters in diameter?

- (1) limestone
- (2) sandstone
- (3) siltstone
- (4) shale

Base your answers to questions 48 through 50 on the map below and on your knowledge of Earth science. Letters A through H are locations on Earth's surface.



- 48 At which location would the angle of the noon Sun on December 21 have the greatest altitude?
- |       |       |
|-------|-------|
| (1) A | (3) E |
| (2) B | (4) D |
- 49 The approximate difference in time between an observer located at position B and an observer located at position D is
- |              |             |
|--------------|-------------|
| (1) 10 hours | (3) 6 hours |
| (2) 8 hours  | (4) 4 hours |
- 50 A different number of daylight hours are received at locations A and G in January, primarily because of
- |                                |                                   |
|--------------------------------|-----------------------------------|
| (1) Earth's rate of revolution | (3) the difference in longitude   |
| (2) Earth's rate of rotation   | (4) the tilt of Earth on its axis |

## Part B–2

### Answer all questions in this part.

*Directions (51–65):* Record your answers in the spaces provided in your answer booklet. Some questions may require the use of the *2011 Edition Reference Tables for Physical Setting/Earth Science*.

Base your answers to questions 51 and 52 on the passage below and on your knowledge of Earth science.

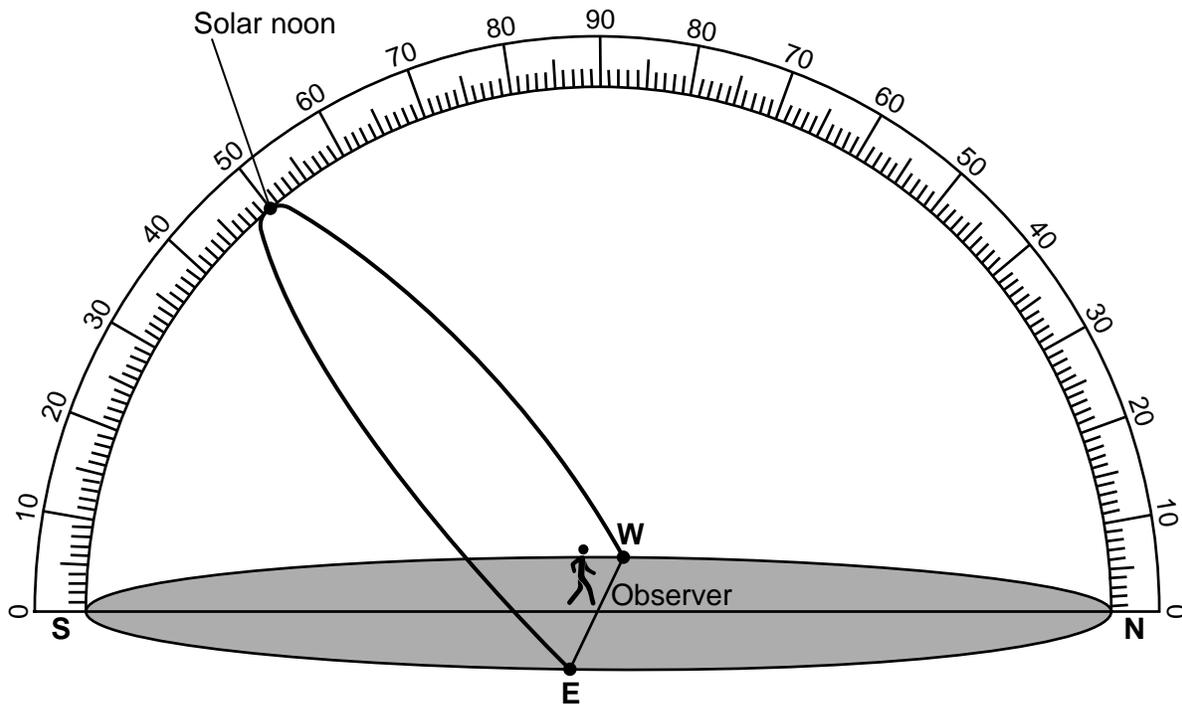
### Major Minerals of New York State

Hundreds of different kinds of minerals can be found throughout New York State. However, only a few are common, and these are mainly found in the Adirondack Mountains and the Allegheny Plateau. Most Adirondack minerals occur in metamorphic rocks. The mineral garnet, New York State’s gemstone, has been mined in the Adirondacks for nearly 150 years. Other minerals found in the Adirondacks are magnetite, graphite, talc, galena, wollastonite (a silicate mineral with many industrial uses), and tourmaline (a silicate gemstone of many colors).

The Allegheny Plateau contains Silurian-age bedrock below the surface that is economically important. These rocks are a source of halite. Some of these deposits are “mined” today by pumping water underground to dissolve the halite and then pumping the salty water back up where evaporation causes the halite to precipitate and form crystals.

- 51 From the Adirondack minerals named in the passage, identify one mineral with a metallic luster and one mineral with a nonmetallic luster. [1]
- 52 Most garnet mined in New York State is used as an abrasive for products such as sand paper. Identify the primary mineral property that makes garnet particularly useful for this purpose. [1]
-

Base your answers to questions 53 through 55 on the diagram below and on your knowledge of Earth science. The diagram represents the position of the noon Sun along its apparent daily path as seen by an observer in the United States on September 23.



53 Identify the Sun's altitude at solar noon. [1]

54 State the number of daylight hours at this location on the date shown. [1]

55 Identify the motion of Earth that causes the Sun's apparent daily path through the sky. [1]

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Base your answers to questions 56 through 59 on the data table below and on your knowledge of Earth science. The data table below shows the decay of a radioactive isotope over a period of years.

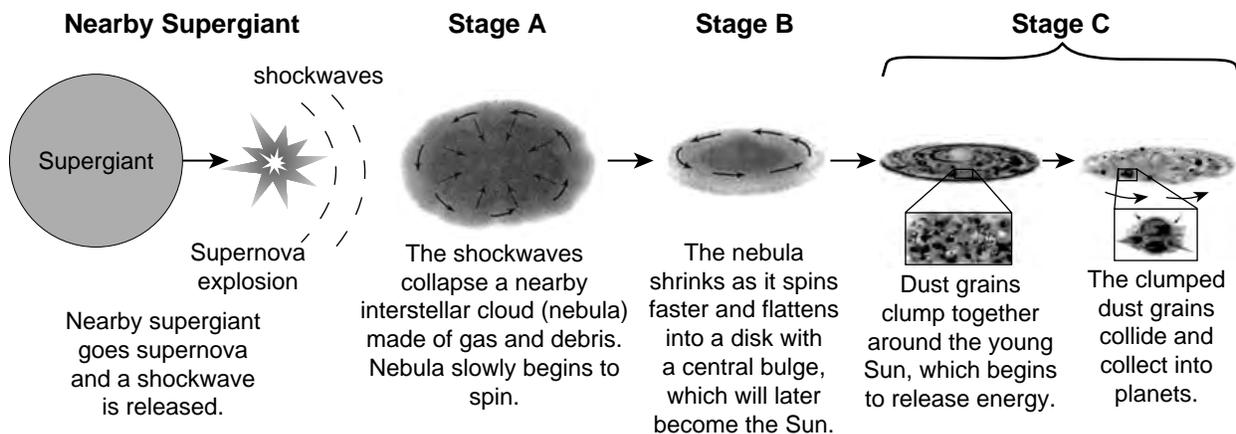
**Radioactive Isotope Decay**

<b>Time (years)</b>	<b>Percentage of Radioactive Material Remaining (%)</b>
0	100.0
5700	50.00
11,400	25.00
17,100	12.50
22,800	6.250
28,500	3.125

- 56 On the grid *in your answer booklet*, plot the percent of radioactive material remaining for each time shown in the data table. Connect *all six* plots with a line. [1]
- 57 Identify this radioactive isotope. [1]
- 58 Identify the number of years that have passed if only 1.5625% of the radioactive material remains. [1]
- 59 Explain why this radioactive material would *not* be used to confirm the age of a sample believed to be 1 million years old. [1]
-

Base your answers to questions 60 through 62 on the diagram below and on your knowledge of Earth science. The diagram represents three stages, labeled A, B, and C, in the inferred formation of our solar system following the explosion of a nearby supergiant.

### Inferred Formation of Our Solar System



(Not drawn to scale)

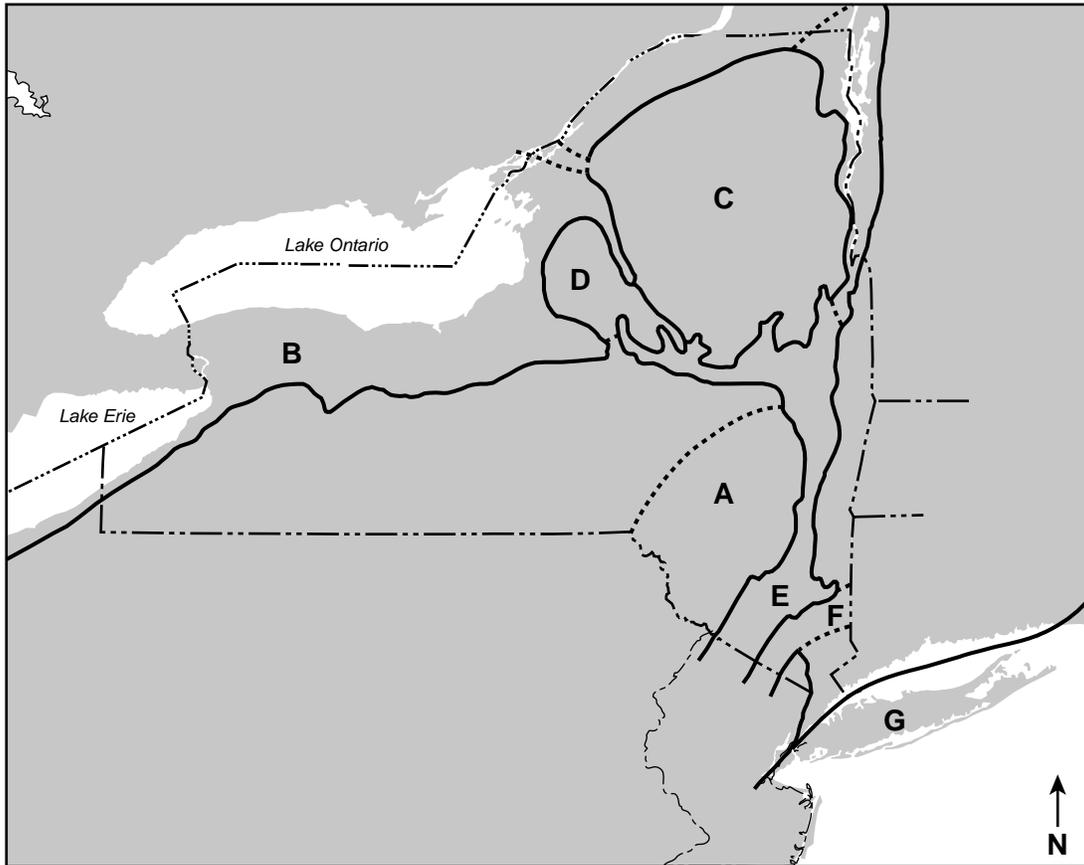
60 State the name of *one* star that could undergo a supernova explosion. [1]

61 Identify the nuclear process the young Sun begins to undergo in stage C to release energy. [1]

62 State the name and shape of the galaxy in which the stages shown in the diagram occurred. [1]

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Base your answers to questions 63 through 65 on the map below and your knowledge of Earth science. The map shows generalized landscape regions of New York State. Selected landscape regions are labeled A through G.



63 Two topographic maps using the same contour interval and the same scale were made to show the elevations of landscape regions *B* and *C*. Describe how the spacing between the contour lines in landscape region *B* would differ from the spacing between the contour lines in landscape region *C*. [1]

64 Identify the New York State river that flows from landscape region *C* through landscape regions *E* and *F*. [1]

65 Write the letter of the landscape region composed of mostly Pleistocene-age moraines and glacial outwash plains. [1]

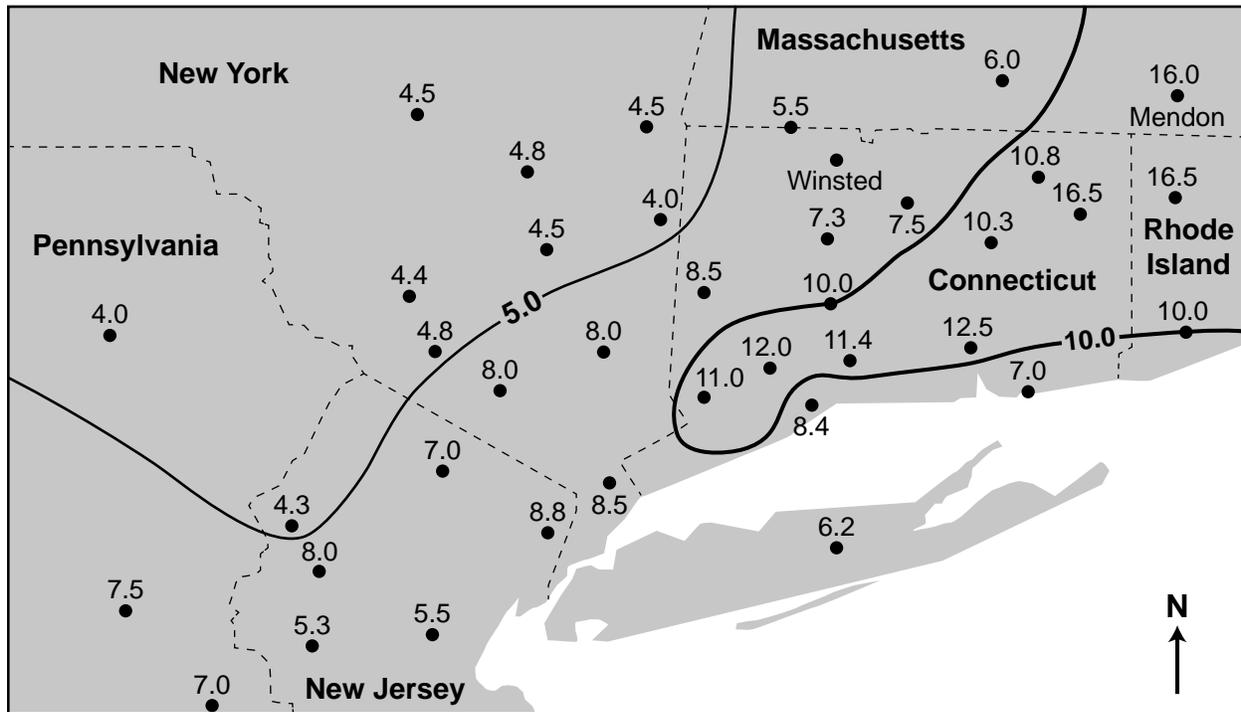
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## Part C

### Answer all questions in this part.

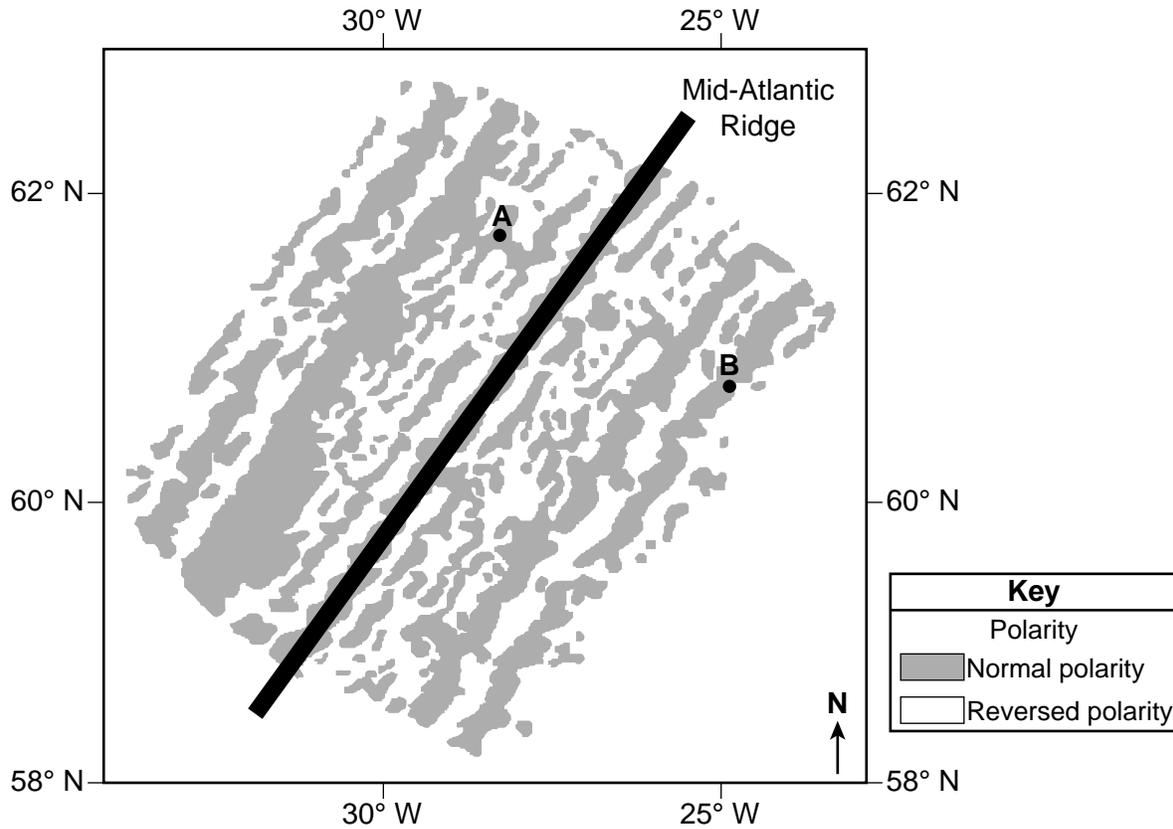
*Directions (66–85):* Record your answers in the spaces provided in your answer booklet. Some questions may require the use of the *2011 Edition Reference Tables for Physical Setting/Earth Science*.

Base your answers to questions 66 through 68 on the map below and on your knowledge of Earth science. The map shows snowfall totals in inches in the northeastern United States from a single winter storm that ended on March 4, 2019. The dots on the map indicate where snowfall measurements were taken. The 5.0-inch and 10.0-inch snowfall isolines are shown on the map. The locations of Winsted, Connecticut, and Mendon, Massachusetts, are indicated.



- 66 This storm was the result of the interaction of an mT air mass with a cP air mass. Describe the moisture and temperature characteristics of the mT air mass. [1]
- 67 Identify the snowfall amount most likely recorded in Winsted, Connecticut, due to this snowstorm. [1]
- 68 The snowfall recorded at Mendon, Massachusetts, occurred over a 10-hour period. Calculate the snowfall rate in inches per hour. [1]
-

Base your answers to questions 69 through 71 on the map below and on your knowledge of Earth science. The map shows the bands of normal and reversed magnetic polarity of a portion of the ocean-floor bedrock just southwest of the Iceland Hot Spot on both sides of the Mid-Atlantic Ridge. Letters *A* and *B* represent locations on the ocean floor of two tectonic plates.



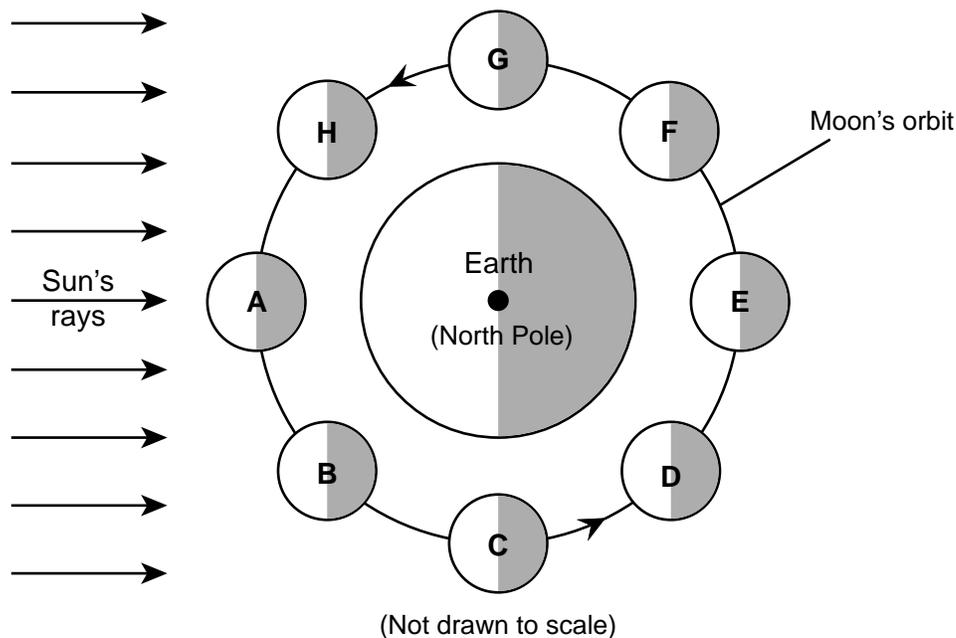
69 Identify the names of the tectonic plates on which *A* and *B* are located. [1]

70 In your answer booklet, circle the term that best indicates the age of surface bedrock at location *A* relative to the age of surface bedrock at location *B*. Describe the evidence that supports your answer. [1]

71 Describe the relative tectonic plate motion that produced this pattern of magnetic polarity. [1]

---

Base your answers to questions 72 through 75 on the diagram below and on your knowledge of Earth science. The diagram represents the Moon at eight positions, A through H, in its orbit around Earth. The shaded parts of the Moon and Earth represent darkness.



72 Identify the lettered position of the Moon where a lunar eclipse could be observed from Earth. [1]

73 State the number of days required for one complete cycle of Moon phases. [1]

74 Identify the mean distance of the Moon from Earth in million kilometers. [1]

75 Describe the actual shape of the Moon's orbit. [1]

---

Base your answers to questions 76 through 79 on the passage and map below and on your knowledge of Earth science. The map shows the location of the Totten Glacier in Antarctica.

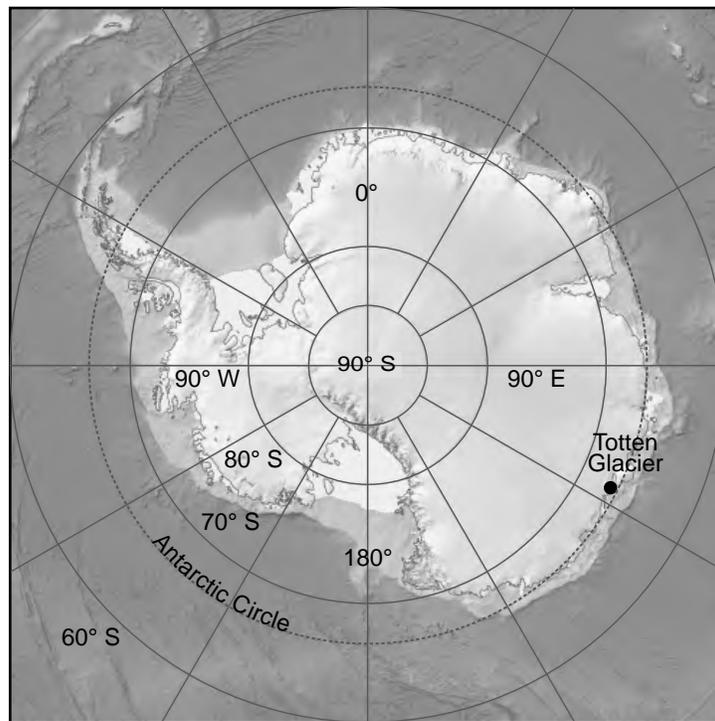
### Antarctic Warming

Antarctica contains about 90% of Earth's ice. Portions of Antarctica are covered with ice sheets that are nearly three miles thick. These ice sheets are inferred to have formed approximately 10 million years ago.

Warming global temperatures and warming ocean waters have caused the rate of glacial melting to increase. This is occurring to one of the biggest glaciers on Antarctica's east coast, the Totten Glacier, which could raise global sea levels by 12.6 feet alone if all its ice melted.

Scientists are currently trying to determine the actual rate at which the ice in Antarctica is being lost. Snowfall, which adds to ice buildup, must also be considered in this determination. However, most of Antarctica is a polar desert, receiving only small amounts of snow annually.

Location of Totten Glacier in Antarctica



- 76 Identify the geologic period and epoch when the 3-mile-thick ice sheets in Antarctica are inferred to have formed. [1]
- 77 Describe the general relationship between increasing average global temperatures and sea level height. [1]
- 78 Identify *two* major greenhouse gases that contribute to global warming. [1]
- 79 *In your answer booklet*, place one check mark (✓) in the box to show the dominant type of air pressure that is located over the South Pole (90° S) that causes desert-like conditions. Also, place another check mark in the box that identifies the general direction of vertical air movement over the South Pole. [1]

Base your answers to questions 80 through 83 on the photograph below and on your knowledge of Earth science. The photograph shows the landscape features associated with a meandering stream. Point *A* represents a location in the stream. Points *B* and *C* represent locations on the edges of the stream. The arrows indicate the direction of stream flow.

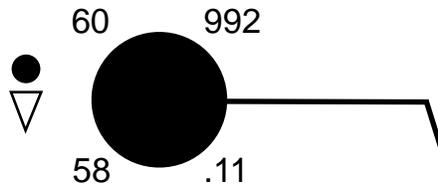


- 80 The velocity of the stream at location *A* is 5 centimeters per second (cm/s). Identify the names of *all* the particle sizes that are carried by the stream at location *A*. [1]
- 81 Explain why location *C*, located on the outside of a meander curve, is likely to experience more erosion than location *B*. [1]
- 82 State the name of the large flat landscape area found on both sides of the stream. [1]
- 83 Describe the change in the stream's discharge and velocity during a spring snow melt. [1]
-

Base your answers to questions 84 and 85 on the map in your answer booklet and on your knowledge of Earth science. The map shows a low-pressure system in the eastern part of the United States. Line *AB* and line *AC* represent two frontal boundaries. Letter *Z* is a location on Earth's surface. Air masses are labeled.

84 On the map *in your answer booklet*, draw the correct front symbols along line *AB* and along line *AC*, to represent the types of fronts and their direction of movement. [1]

85 Below is the station model found at location *Z*. Complete the table *in your answer booklet* by recording the weather data shown on the station model for location *Z*. [1]





# PHYSICAL SETTING EARTH SCIENCE

Wednesday, August 20, 2025 — 8:30 to 11:30 a.m., only

ANSWER BOOKLET

Student .....

Teacher .....

School ..... Grade .....

**Record your answers for Part B–2 and Part C in this booklet.**

**Part B–2**

51 Metallic luster: \_\_\_\_\_

Nonmetallic luster: \_\_\_\_\_

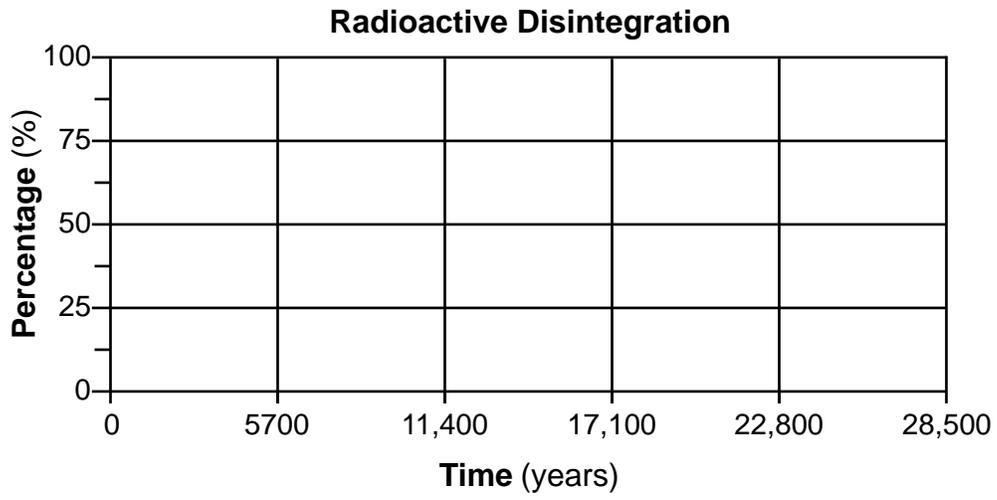
52 Mineral property: \_\_\_\_\_

53 \_\_\_\_\_ °

54 \_\_\_\_\_ hrs

55 \_\_\_\_\_

56



57 \_\_\_\_\_

58 \_\_\_\_\_ years

59 \_\_\_\_\_  
\_\_\_\_\_

60 \_\_\_\_\_

61 \_\_\_\_\_

62 Name: \_\_\_\_\_

Shape: \_\_\_\_\_

63 \_\_\_\_\_  
\_\_\_\_\_

64 \_\_\_\_\_

65 \_\_\_\_\_

**Part C**

**66** Moisture: \_\_\_\_\_

Temperature: \_\_\_\_\_

**67** \_\_\_\_\_ **in**

**68** \_\_\_\_\_ **in/hr**

**69** Location A: \_\_\_\_\_ **Plate**

Location B: \_\_\_\_\_ **Plate**

**70** Relative age of bedrock at A: (circle one):      Younger      Older      Same

Evidence: \_\_\_\_\_

\_\_\_\_\_

**71** \_\_\_\_\_

\_\_\_\_\_

**72** Moon position: \_\_\_\_\_

**73** \_\_\_\_\_ **d**

**74** \_\_\_\_\_ **million kilometers**

**75** \_\_\_\_\_

76 Period: \_\_\_\_\_

Epoch: \_\_\_\_\_

77 \_\_\_\_\_

\_\_\_\_\_

78 \_\_\_\_\_ and \_\_\_\_\_

79 Air Pressure:  Low  High

Vertical Air Movement:  Sinking toward Earth's surface  Rising from Earth's surface

80 \_\_\_\_\_

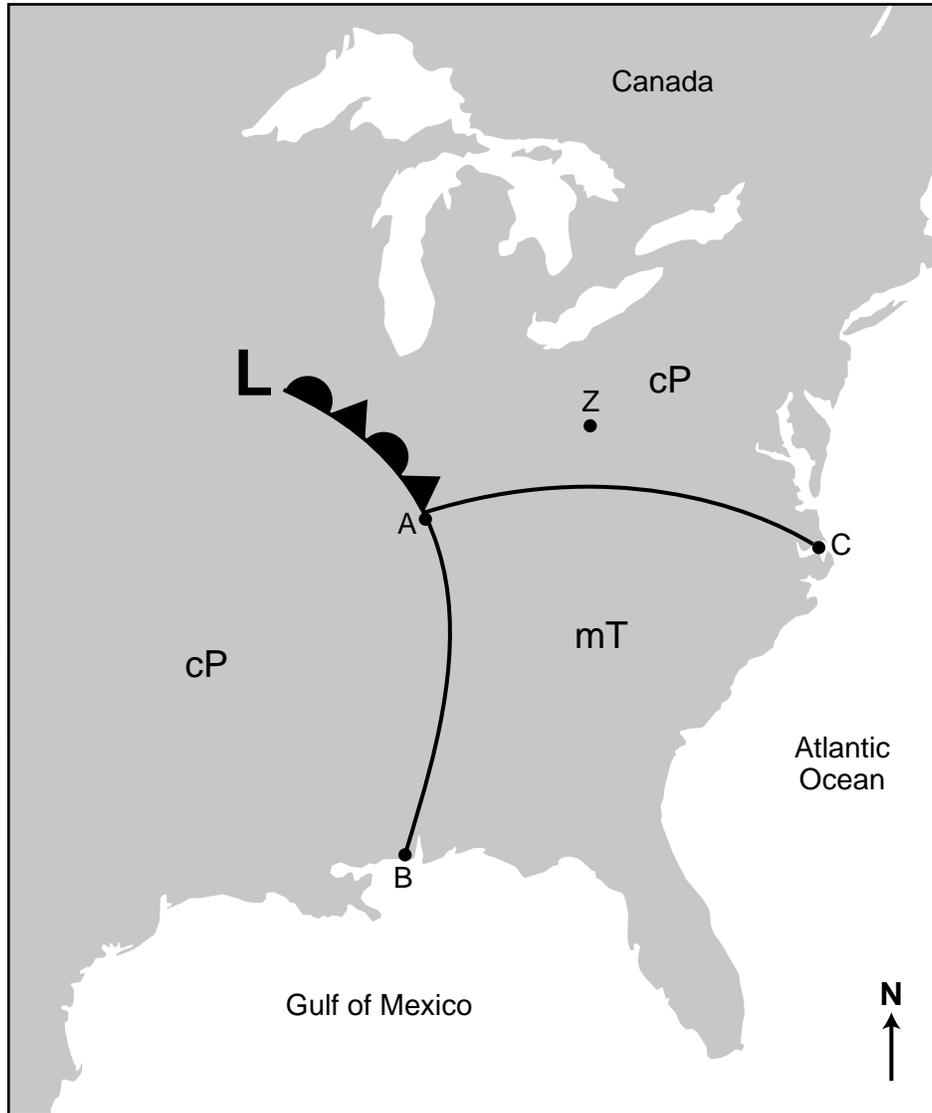
81 \_\_\_\_\_

\_\_\_\_\_

82 \_\_\_\_\_

83 Discharge: \_\_\_\_\_

Velocity: \_\_\_\_\_



Weather Variable	Date
Temperature (°F)	
Present Weather	
Wind Direction	
Wind Speed (knots)	







**Regents Examination in Physical Setting/Earth Science – August 2025****Scoring Key: Parts A and B-1 (Multiple-Choice Questions)**

<b>Examination</b>	<b>Date</b>	<b>Question Number</b>	<b>Scoring Key</b>	<b>Question Type</b>	<b>Credit</b>	<b>Weight</b>
Physical Setting/Earth Science	August '25	1	2	MC	1	1
Physical Setting/Earth Science	August '25	2	2	MC	1	1
Physical Setting/Earth Science	August '25	3	1	MC	1	1
Physical Setting/Earth Science	August '25	4	4	MC	1	1
Physical Setting/Earth Science	August '25	5	1	MC	1	1
Physical Setting/Earth Science	August '25	6	4	MC	1	1
Physical Setting/Earth Science	August '25	7	2	MC	1	1
Physical Setting/Earth Science	August '25	8	3	MC	1	1
Physical Setting/Earth Science	August '25	9	1	MC	1	1
Physical Setting/Earth Science	August '25	10	3	MC	1	1
Physical Setting/Earth Science	August '25	11	1	MC	1	1
Physical Setting/Earth Science	August '25	12	2	MC	1	1
Physical Setting/Earth Science	August '25	13	4	MC	1	1
Physical Setting/Earth Science	August '25	14	3	MC	1	1
Physical Setting/Earth Science	August '25	15	1	MC	1	1
Physical Setting/Earth Science	August '25	16	4	MC	1	1
Physical Setting/Earth Science	August '25	17	3	MC	1	1
Physical Setting/Earth Science	August '25	18	4	MC	1	1
Physical Setting/Earth Science	August '25	19	2	MC	1	1
Physical Setting/Earth Science	August '25	20	3	MC	1	1
Physical Setting/Earth Science	August '25	21	1	MC	1	1
Physical Setting/Earth Science	August '25	22	2	MC	1	1
Physical Setting/Earth Science	August '25	23	4	MC	1	1
Physical Setting/Earth Science	August '25	24	3	MC	1	1
Physical Setting/Earth Science	August '25	25	3	MC	1	1
Physical Setting/Earth Science	August '25	26	4	MC	1	1
Physical Setting/Earth Science	August '25	27	1	MC	1	1
Physical Setting/Earth Science	August '25	28	3	MC	1	1
Physical Setting/Earth Science	August '25	29	4	MC	1	1
Physical Setting/Earth Science	August '25	30	2	MC	1	1
Physical Setting/Earth Science	August '25	31	4	MC	1	1
Physical Setting/Earth Science	August '25	32	1	MC	1	1
Physical Setting/Earth Science	August '25	33	3	MC	1	1
Physical Setting/Earth Science	August '25	34	1	MC	1	1
Physical Setting/Earth Science	August '25	35	2	MC	1	1
Physical Setting/Earth Science	August '25	36	1	MC	1	1
Physical Setting/Earth Science	August '25	37	4	MC	1	1
Physical Setting/Earth Science	August '25	38	3	MC	1	1
Physical Setting/Earth Science	August '25	39	1	MC	1	1
Physical Setting/Earth Science	August '25	40	4	MC	1	1
Physical Setting/Earth Science	August '25	41	2	MC	1	1
Physical Setting/Earth Science	August '25	42	2	MC	1	1
Physical Setting/Earth Science	August '25	43	1	MC	1	1
Physical Setting/Earth Science	August '25	44	2	MC	1	1
Physical Setting/Earth Science	August '25	45	4	MC	1	1
Physical Setting/Earth Science	August '25	46	2	MC	1	1
Physical Setting/Earth Science	August '25	47	3	MC	1	1
Physical Setting/Earth Science	August '25	48	3	MC	1	1
Physical Setting/Earth Science	August '25	49	2	MC	1	1
Physical Setting/Earth Science	August '25	50	4	MC	1	1

## Regents Examination in Physical Setting/Earth Science – August 2025

### Scoring Key: Parts B-2 and C (Constructed-Response Questions)

Examination	Date	Question Number	Scoring Key	Question Type	Credit	Weight
Physical Setting/Earth Science	August '25	51	–	CR	1	1
Physical Setting/Earth Science	August '25	52	–	CR	1	1
Physical Setting/Earth Science	August '25	53	–	CR	1	1
Physical Setting/Earth Science	August '25	54	–	CR	1	1
Physical Setting/Earth Science	August '25	55	–	CR	1	1
Physical Setting/Earth Science	August '25	56	–	CR	1	1
Physical Setting/Earth Science	August '25	57	–	CR	1	1
Physical Setting/Earth Science	August '25	58	–	CR	1	1
Physical Setting/Earth Science	August '25	59	–	CR	1	1
Physical Setting/Earth Science	August '25	60	–	CR	1	1
Physical Setting/Earth Science	August '25	61	–	CR	1	1
Physical Setting/Earth Science	August '25	62	–	CR	1	1
Physical Setting/Earth Science	August '25	63	–	CR	1	1
Physical Setting/Earth Science	August '25	64	–	CR	1	1
Physical Setting/Earth Science	August '25	65	–	CR	1	1
Physical Setting/Earth Science	August '25	66	–	CR	1	1
Physical Setting/Earth Science	August '25	67	–	CR	1	1
Physical Setting/Earth Science	August '25	68	–	CR	1	1
Physical Setting/Earth Science	August '25	69	–	CR	1	1
Physical Setting/Earth Science	August '25	70	–	CR	1	1
Physical Setting/Earth Science	August '25	71	–	CR	1	1
Physical Setting/Earth Science	August '25	72	–	CR	1	1
Physical Setting/Earth Science	August '25	73	–	CR	1	1
Physical Setting/Earth Science	August '25	74	–	CR	1	1
Physical Setting/Earth Science	August '25	75	–	CR	1	1
Physical Setting/Earth Science	August '25	76	–	CR	1	1
Physical Setting/Earth Science	August '25	77	–	CR	1	1
Physical Setting/Earth Science	August '25	78	–	CR	1	1
Physical Setting/Earth Science	August '25	79	–	CR	1	1
Physical Setting/Earth Science	August '25	80	–	CR	1	1
Physical Setting/Earth Science	August '25	81	–	CR	1	1
Physical Setting/Earth Science	August '25	82	–	CR	1	1
Physical Setting/Earth Science	August '25	83	–	CR	1	1
Physical Setting/Earth Science	August '25	84	–	CR	1	1
Physical Setting/Earth Science	August '25	85	–	CR	1	1

Key
MC = Multiple-choice question
CR = Constructed-response question

The chart for determining students' final examination scores for the **August 2025 Regents Examination in Physical Setting/Earth Science** will be posted on the Department's web site at <https://www.nysedregents.org/EarthScience/> on the day of the examination. Conversion charts provided for the previous administrations of the Physical Setting/Earth Science examination must NOT be used to determine students' final scores for this administration.

# FOR TEACHERS ONLY

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

## PHYSICAL SETTING/EARTH SCIENCE

Wednesday, August 20, 2025 — 8:30 to 11:30 a.m., only

### RATING GUIDE

**Directions to the Teacher:**

Refer to the directions on page 2 before rating student papers.

Updated information regarding the rating of this examination may be posted on the New York State Education Department's web site during the rating period. Check this web site at: <https://www.nysed.gov/state-assessment/high-school-regents-examinations> and select the link "Scoring Information" for any recently posted information regarding this examination. This site should be checked before the rating process for this examination begins and several times throughout the Regents Examination period.

## Directions to the Teacher

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

Allow 1 credit for each correct response.

At least two science teachers must participate in the scoring of the Part B–2 and Part C open-ended questions on a student’s paper. 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 more than approximately one-half of the open-ended questions on a student’s answer paper. Teachers may not score their own students’ answer papers.

Students’ responses must be scored strictly according to the 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. Do not attempt to correct the student’s work by making insertions or changes of any kind. On the student’s separate answer sheet, for each question, record the number of credits earned and the teacher’s assigned rater/scorer letter.

Fractional credit is *not* allowed. Only whole-number credit may be given for a response. If the student gives more than one answer to a question, only the first answer should be rated. Units need not be given when the wording of the questions allows such omissions.

For hand scoring, raters should enter the scores earned in the appropriate boxes printed on the separate answer sheet. Next, the rater should add these scores and enter the total in the space provided. The student’s score for the Earth Science Performance Test should be recorded in the space provided. Then the student’s raw scores on the written test and the performance test should be converted to a scale score by using the conversion chart that will be posted on the Department’s web site at: <https://www.nysed.gov/state-assessment/high-school-regents-examinations> on Wednesday, August 20, 2025. The student’s scale score should be entered in the box labeled “Scale Score” on the student’s answer sheet. The scale score is the student’s final examination score.

**Schools are not permitted to rescore any of the open-ended questions on this exam after each question has been rated once, regardless of the final exam score. Schools are required to ensure that the raw scores have been added correctly and that the resulting scale score has been determined accurately.**

Because scale scores corresponding to raw scores in the conversion chart may change from one administration to another, it is crucial that, for each administration, the conversion chart provided for that administration be used to determine the student’s final score.

## Part B–2

**Allow a maximum of 15 credits for this part.**

To ensure the accuracy of overlays, select a printer setting such as *full*, *actual size*, or *100%* when printing this document. Do **not** select the *fit to page* setting.

**51** [1] Allow 1 credit if *both* responses are correct.

- Metallic luster: magnetite, galena, *or* graphite
- Non-metallic luster: garnet, talc, tourmaline, *or* wollastonite

**52** [1] Allow 1 credit for hardness.

**53** [1] Allow 1 credit for 50°.

**Note:** Do *not* allow credit if a compass direction is indicated because this refers to latitude, not an altitude.

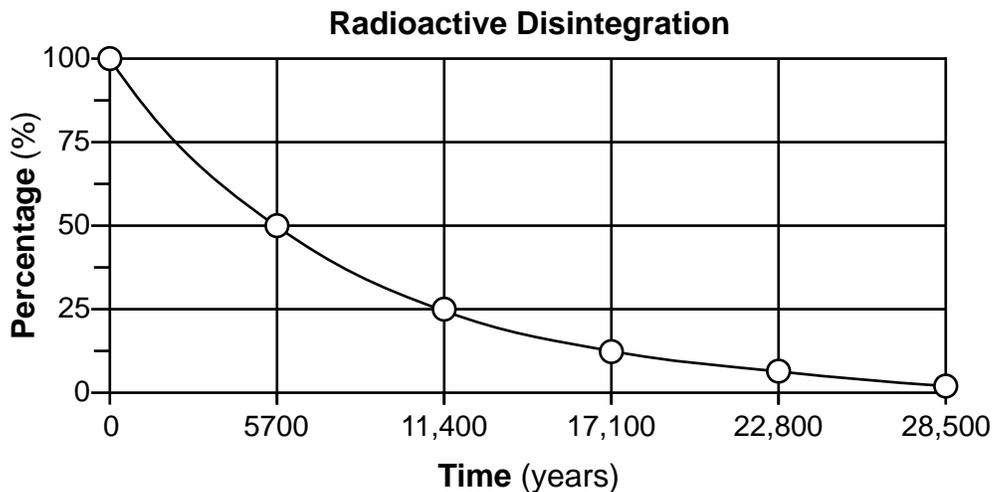
**54** [1] Allow 1 credit for 12 hours.

**55** [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- rotation
- Earth’s spinning on its axis.

- 56 [1] Allow 1 credit if *all six* of the student's plots are within or touch the circles shown and all six plots are correctly connected with a line that passes within or touches each circle.

**Example of a 1-credit response:**



**Note:** Allow credit if the student-drawn line does *not* pass through the student plots but is still within or touches the circles.

It is recommended that an overlay of the same scale as the student booklet be used to ensure reliability in rating.

- 57 [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- Carbon-14
- $^{14}\text{C}$
- C-14

**Note:** Do *not* allow credit for " $^{14}\text{C} \rightarrow ^{14}\text{N}$ ", since  $^{14}\text{N}$  is neither radioactive nor represented by the data in the data table.

Do *not* allow credit for carbon or C alone because carbon has more than one isotope.

- 58 [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- 34,200 years
- $3.42 \times 10^4$  years
- $34.2 \times 10^3$  years

- 59 [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- There would be too little of the radioactive material left after 1 million years.
- The half-life is too short.

**60** [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- Betelgeuse
- Rigel
- Deneb
- Spica
- Polaris

**61** [1] Allow 1 credit for nuclear fusion or fusion.

**62** [1] Allow 1 credit if *both* responses are correct.

Name: Milky Way

Shape: spiral or barred spiral

**63** [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- Contour lines would be farther apart in landscape region *B* and closer together in landscape region *C*.
- The contour lines in landscape region *B* would be spaced farther apart.
- Region *C* would show contour lines closer together.

**64** [1] Allow 1 credit for the Hudson River.

**65** [1] Allow 1 credit for *G*.

## Part C

**Allow a maximum of 20 credits for this part.**

- 66** [1] Allow 1 credit if *both* relative temperature and relative humidity are correct. Acceptable responses include, but are not limited to:

mT Air Mass:

Moisture:

- high
- humid
- wet
- very moist

Temperature:

- high
- warm/hot

- 67** [1] Allow 1 credit for any value from 5.5 to 7.5 inches.

- 68** [1] Allow 1 credit for 1.6 in/hr.

- 69** [1] Allow 1 credit if *both* responses are correct.

Location A: North American Plate

Location B: Eurasian Plate

- 70** [1] Allow 1 credit for *only* circling “Younger” and an acceptable description of evidence. Acceptable responses include, but are not limited to:

- A is closer to the Mid-Atlantic Ridge and therefore younger than B.
- B is further away from the mid-ocean ridge than A, so it is older than A.
- The age of the ocean floor increases as you move further away from the ridge.
- A is closer to the ridge where the youngest rock is located.

- 71** [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- moving apart/rifting
  - diverging/divergent
  - sea floor spreading
- 72** [1] Allow 1 credit for *E*.
- 73** [1] Allow 1 credit for any value from 29 to 30 days.
- 74** [1] Allow 1 credit for 0.386 million kilometers.
- 75** [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- The Moon's orbit has an elliptical shape.
  - It is slightly eccentric.
  - almost a circle/circular
  - oval
  - eccentricity of 0.055
- 76** [1] Allow 1 credit if both responses are correct.
- Period: Neogene
  - Epoch: Miocene
- 77** [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- The greater the average global temperature, the greater the height of sea levels worldwide.
  - Higher temperatures lead to higher sea levels.
  - direct relationship/positive correlation
- 78** [1] Allow 1 credit for *two* different greenhouse gases. Acceptable responses include, but are not limited to:
- carbon dioxide *or* CO<sub>2</sub>
  - methane *or* CH<sub>4</sub>
  - water vapor *or* H<sub>2</sub>O gas
  - nitrous oxide *or* N<sub>2</sub>O
  - ozone *or* O<sub>3</sub>
  - chlorofluorocarbons *or* CFCs

**79** [1] Allow 1 credit for *only* two check marks — one in the box for “High Pressure” *and* one in the box for “Sinking toward Earth’s surface”.

**Note:** Allow credit if a symbol other than a check mark is used.

**80** [1] Allow 1 credit for clay, silt, and sand.

**81** [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- Water velocity is greater on the outside of a meander.
- The kinetic energy of the river is greater at C.
- The water moves faster near side C of the stream.

**82** [1] Allow 1 credit for flood plain or plain.

**83** [1] Allow 1 credit if *both* responses indicate an increase. Acceptable responses include, but are not limited to:

Discharge:

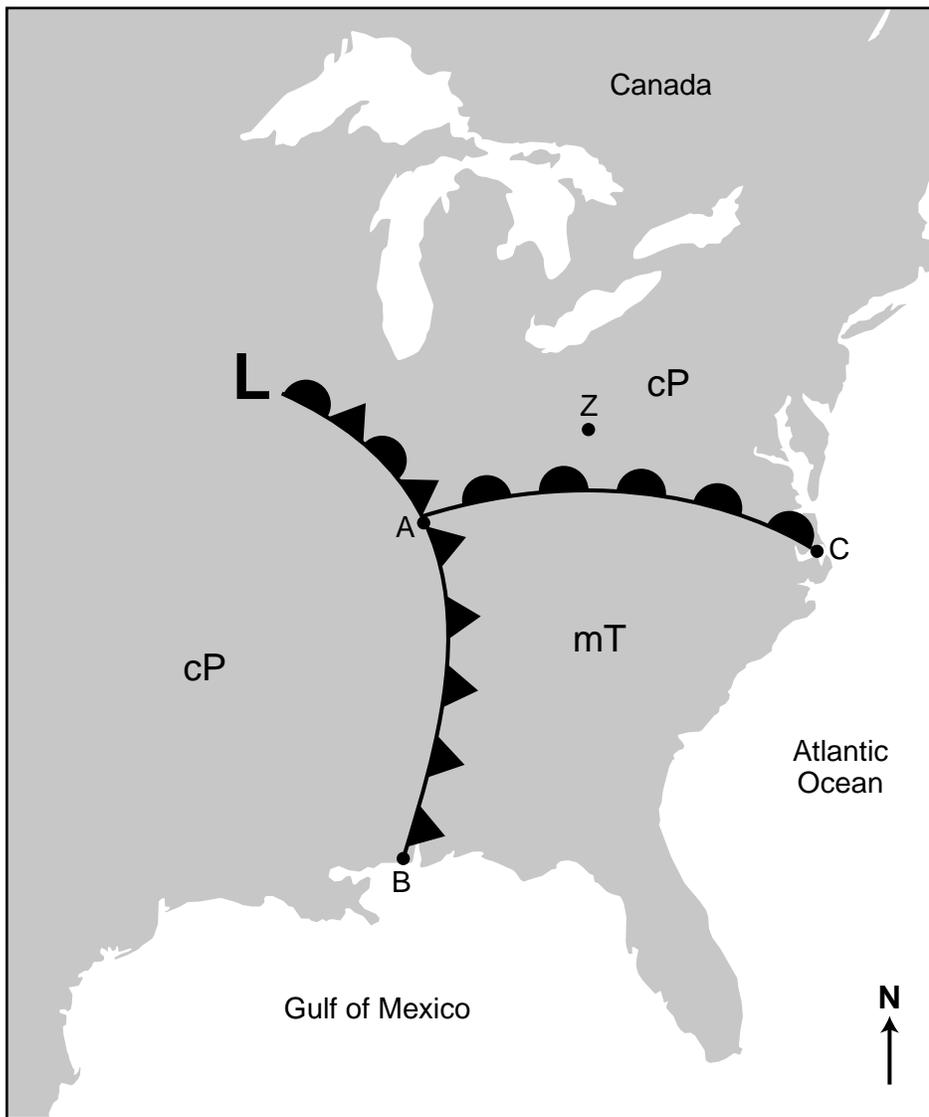
- increases
- is greater
- more volume

Velocity:

- increases
- is greater
- is faster

- 84 [1] Allow 1 credit for correctly drawing a cold front symbol along the length of line *AB* and a warm front symbol along line *AC*. The cold front and warm front symbols must be on the proper sides of the frontal boundaries, as shown below.

**Example of a 1-credit response:**



**Note:** Allow credit even if the front symbols are not shaded.

85 [1] Allow credit if *all four* weather variables are correct, as shown in the table below.

<b>Weather Variable</b>	<b>Date</b>
<b>Temperature</b> (°F)	60
<b>Present Weather</b>	rain showers
<b>Wind Direction</b>	— East or E — from the east — to the west
<b>Wind Speed</b> (knots)	any value from 8 to 12

**Note:** Do *not* allow credit for rain alone for the present weather because the symbol on the model is for rain showers, not rain.

**The *Chart for Determining the Final Examination Score for the August 2025 Regents Examination in Physical Setting/Earth Science* will be posted on the Department’s web site at: <https://www.nysed.gov/state-assessment/high-school-regents-examinations> on Wednesday, August 20, 2025. Conversion charts provided for previous administrations of the Regents Examination in Physical Setting/Earth Science must NOT be used to determine students’ final scores for this administration.**

### **Online Submission of Teacher Evaluations of the Test to the Department**

Suggestions and feedback from teachers provide an important contribution to the test development process. The Department provides an online evaluation form for State assessments. It contains spaces for teachers to respond to several specific questions and to make suggestions. Instructions for completing the evaluation form are as follows:

1. Go to <https://www.nysed.gov/state-assessment/teacher-feedback-state-assessments>.
2. Click Regents Examinations.
3. Complete the required demographic fields.
4. Select the test title from the Regents Examination dropdown list.
5. Complete each evaluation question and provide comments in the space provided.
6. Click the SUBMIT button at the bottom of the page to submit the completed form.

## Map to Core Curriculum

<b>August 2025 Physical Setting/Earth Science</b>			
<b>Question Numbers</b>			
Key Ideas/Performance Indicators	Part A	Part B	Part C
<b>Standard 1</b>			
Math Key Idea 1	7	42, 56	68
Math Key Idea 2	1, 25, 29, 34	44	67, 73, 77, 80
Math Key Idea 3		49	
Science Inquiry Key Idea 1	3, 4	36, 38, 39, 50, 59	75, 78, 81, 83
Science Inquiry Key Idea 2			
Science Inquiry Key Idea 3	6, 7, 9, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 25, 26, 33, 34, 35	37, 38, 45, 47, 51, 52, 57, 59, 60, 64, 65	66, 68, 69, 74, 76, 79, 80, 84, 85
Engineering Design Key Idea 1			
<b>Standard 2</b>			
Key Idea 1	19	43	
Key Idea 2			
Key Idea 3			
<b>Standard 6</b>			
Key Idea 1	8, 10, 21, 28	44	66, 77, 81
Key Idea 2	1, 2, 17, 23, 24, 26, 27, 28, 29, 30, 31, 32, 35	39, 40, 41, 42, 44, 45, 46, 48, 49, 50, 53, 54, 55, 56, 57, 58, 60, 61, 62, 63, 64, 65	67, 68, 69, 70, 71, 72, 76, 79, 80, 82, 84, 85
Key Idea 3			
Key Idea 4			
Key Idea 5	5, 8, 10, 17	55, 56, 65	68, 70, 71, 72, 83
Key Idea 6			
<b>Standard 7</b>			
Key Idea 1			
Key Idea 2			
<b>Standard 4</b>			
Key Idea 1	1, 2, 3, 4, 5, 6, 7, 8, 9, 16, 17, 18, 23, 24	36, 37, 38, 45, 46, 48, 49, 50, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62	72, 73, 74, 75, 76, 77
Key Idea 2	10, 11, 12, 13, 14, 15, 19, 20, 21, 25, 26, 27, 28, 29, 30, 31, 32	39, 40, 41, 42, 43, 44, 63, 64, 65	66, 67, 68, 69, 70, 71, 78, 79, 80, 81, 82, 83, 84, 85
Key Idea 3	22, 33, 34, 35	47, 51, 52	
<b>Reference Tables</b>			
ESRT 2011 Edition (Revised)	6, 7, 9, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 25, 26, 33, 34, 35	37, 38, 45, 47, 51, 52, 57, 59, 60, 64, 65	66, 68, 69, 74, 76, 79, 80, 84, 85

The State Education Department / The University of the State of New York  
**Regents Examination in Physical Setting/Earth Science – August 2025**

**Chart for Converting Total Test Raw Scores to Final Examination Scores (Scale Scores)**

**(Not to be used for the Braille Edition)**

To determine the student's final score, locate the student's Total Performance Test Score across the top of the chart and the Total Written Test Score down the side of the chart. The point where the two scores intersect is the student's final examination score. For example, a student receiving a Total Performance Test Score of 9 and Total Written Test Score of 65 would receive a final examination score of 85.

		<b>Total Performance Test Score</b>																
		16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
<b>Total Written Test Score</b>	85	100	99	99	99	98	98	97	96	96	95	94	93	91	90	88	87	85
	84	99	99	98	98	98	97	96	96	95	94	93	92	91	89	88	86	84
	83	99	99	98	98	98	97	96	96	95	94	93	92	91	89	88	86	84
	82	98	98	98	97	97	96	95	95	94	93	92	91	90	88	87	85	83
	81	98	98	98	97	97	96	95	95	94	93	92	91	90	88	87	85	83
	80	97	97	97	96	96	95	95	94	93	92	91	90	89	88	86	84	82
	79	97	96	96	95	95	94	94	93	92	91	90	89	88	87	85	83	82
	78	97	96	96	95	95	94	94	93	92	91	90	89	88	87	85	83	82
	77	96	95	95	95	94	94	93	92	91	91	89	88	87	86	84	83	81
	76	95	95	94	94	93	93	92	91	91	90	89	88	86	85	83	82	80
	75	95	95	94	94	93	93	92	91	91	90	89	88	86	85	83	82	80
	74	94	94	93	93	92	92	91	90	90	89	88	87	86	84	83	81	79
	73	93	93	92	92	92	91	90	90	89	88	87	86	85	83	82	80	78
	72	93	93	92	92	92	91	90	90	89	88	87	86	85	83	82	80	78
	71	92	92	92	91	91	90	90	89	88	87	86	85	84	82	81	79	77
	70	92	91	91	90	90	89	89	88	87	86	85	84	83	82	80	78	77
	69	91	90	90	89	89	88	88	87	86	85	84	83	82	81	79	77	76
	68	91	90	90	89	89	88	88	87	86	85	84	83	82	81	79	77	76
	67	90	90	89	89	88	88	87	86	85	85	84	82	81	80	78	77	75
	66	89	89	88	88	87	87	86	85	85	84	83	82	80	79	77	76	74
	65	88	88	87	87	86	86	85	85	84	83	82	81	80	78	77	75	73
64	87	87	87	86	86	85	84	84	83	82	81	80	79	77	76	74	72	
63	86	86	86	85	85	84	84	83	82	81	80	79	78	77	75	73	71	
62	86	86	86	85	85	84	84	83	82	81	80	79	78	77	75	73	71	
61	86	85	85	84	84	83	83	82	81	80	79	78	77	76	74	72	71	
60	85	84	84	84	83	82	82	81	80	79	78	77	76	75	73	72	70	
59	84	84	83	83	82	82	81	80	80	79	78	77	75	74	72	71	69	
58	83	83	82	82	81	81	80	79	79	78	77	76	74	73	71	70	68	
57	82	82	81	81	81	80	79	79	78	77	76	75	74	72	71	69	67	
56	81	81	81	80	80	79	78	78	77	76	75	74	73	71	70	68	66	
55	80	80	80	79	79	78	78	77	76	75	74	73	72	71	69	67	65	
54	80	79	79	78	78	77	77	76	75	74	73	72	71	70	68	66	65	
53	79	78	78	78	77	77	76	75	74	74	72	71	70	69	67	66	64	
52	78	78	77	77	76	76	75	74	74	73	72	71	69	68	66	65	63	
51	77	77	76	76	75	75	74	73	73	72	71	70	69	67	66	64	62	
50	76	76	75	75	75	74	73	73	72	71	70	69	68	66	65	63	61	
49	75	75	75	74	74	73	73	72	71	70	69	68	67	65	64	62	60	
48	75	74	74	73	73	72	72	71	70	69	68	67	66	65	63	61	60	
47	74	73	73	72	72	71	71	70	69	68	67	66	65	64	62	60	59	
46	73	73	72	72	71	71	70	69	68	68	67	65	64	63	61	60	58	
45	72	72	71	71	70	70	69	68	68	67	66	65	63	62	60	59	57	

**Final Examination Scores  
Regents Examination in Physical Setting/Earth Science – August 2025 – continued**

		Total Performance Test Score																
		16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
<b>Total Written Test Score</b>	44	71	71	70	70	69	69	68	68	67	66	65	64	63	61	60	58	56
	43	70	70	70	69	69	68	67	67	66	65	64	63	62	60	59	57	55
	42	69	69	69	68	68	67	67	66	65	64	63	62	61	60	58	56	54
	41	69	68	68	67	67	66	66	65	64	63	62	61	60	59	57	55	54
	40	68	67	67	67	66	65	65	64	63	62	61	60	59	58	56	55	53
	39	66	66	65	65	64	64	63	62	62	61	60	59	57	56	54	53	51
	38	65	65	64	64	64	63	62	62	61	60	59	58	57	55	54	52	50
	37	64	64	64	63	63	62	61	61	60	59	58	57	56	54	53	51	49
	36	63	63	63	62	62	61	61	60	59	58	57	56	55	54	52	50	48
	35	62	61	61	61	60	60	59	58	57	57	55	54	53	52	50	49	47
	34	61	61	60	60	59	59	58	57	57	56	55	54	52	51	49	48	46
	33	60	60	59	59	58	58	57	56	56	55	54	53	52	50	49	47	45
	32	59	59	58	58	58	57	56	56	55	54	53	52	51	49	48	46	44
	31	58	57	57	56	56	55	55	54	53	52	51	50	49	48	46	44	43
	30	57	56	56	55	55	54	54	53	52	51	50	49	48	47	45	43	42
	29	56	56	55	55	54	54	53	52	51	51	50	48	47	46	44	43	41
	28	54	54	53	53	52	52	51	51	50	49	48	47	46	44	43	41	39
	27	53	53	53	52	52	51	50	50	49	48	47	46	45	43	42	40	38
	26	52	51	51	50	50	49	49	48	47	46	45	44	43	42	40	38	37
	25	51	50	50	50	49	48	48	47	46	45	44	43	42	41	39	38	36
	24	50	50	49	49	48	48	47	46	46	45	44	43	41	40	38	37	35
	23	48	48	47	47	47	46	45	45	44	43	42	41	40	38	37	35	33
	22	47	47	47	46	46	45	44	44	43	42	41	40	39	37	36	34	32
	21	46	45	45	44	44	43	43	42	41	40	39	38	37	36	34	32	31
	20	45	44	44	44	43	43	42	41	40	40	38	37	36	35	33	32	30
	19	43	43	42	42	41	41	40	39	39	38	37	36	35	33	32	30	28
	18	41	41	41	40	40	39	39	38	37	36	35	34	33	31	30	28	26
	17	41	40	40	39	39	38	38	37	36	35	34	33	32	31	29	27	26
	16	39	39	38	38	37	37	36	35	34	34	33	31	30	29	27	26	24
	15	38	38	37	37	36	36	35	34	34	33	32	31	29	28	26	25	23
	14	36	36	36	35	35	34	33	33	32	31	30	29	28	26	25	23	21
	13	35	34	34	33	33	32	32	31	30	29	28	27	26	25	23	21	20
	12	34	33	33	33	32	31	31	30	29	28	27	26	25	24	22	21	19
	11	32	32	31	31	30	30	29	28	28	27	26	25	23	22	20	19	17
	10	30	30	30	29	29	28	27	27	26	25	24	23	22	20	19	17	15
	9	29	28	28	27	27	26	26	25	24	23	22	21	20	19	17	15	14
	8	28	27	27	27	26	26	25	24	23	23	21	20	19	18	16	15	13
	7	26	26	25	25	24	24	23	22	22	21	20	19	18	16	15	13	11
	6	24	24	24	23	23	22	22	21	20	19	18	17	16	14	13	11	9
	5	23	22	22	21	21	20	20	19	18	17	16	15	14	13	11	9	8
	4	22	22	21	21	20	20	19	18	17	17	16	14	13	12	10	9	7
	3	20	20	19	19	18	18	17	17	16	15	14	13	12	10	9	7	5
	2	18	18	18	17	17	16	16	15	14	13	12	11	10	9	7	5	3
	1	17	16	16	16	15	14	14	13	12	11	10	9	8	7	5	4	2
	0	15	15	14	14	13	13	12	11	11	10	9	8	6	5	3	2	0