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The University of the State of New York

308TH HIGH SCHOOL EXAMINATION

EARTH SCIENCE

Tuesday, January 24, 1950 — 1.15 to 4.15 p. m., only

Write at top of first page of answer paper (a) name of school where you have studied, (b) number of weeks and recitations a week in earth science. Give either the total number of laboratory periods in earth science and the length of such periods or the number of laboratory exercises performed. A paper lacking the statement of laboratory work will not be accepted at a standing of less than 75 credits.

The minimum time requirement is five periods per week for a school year, including at least one prepared laboratory period or its equivalent. [Two unprepared laboratory periods are considered the equivalent of one prepared laboratory period. At least 30 laboratory exercises are required.]

Name of pupil.....Name of school.....

Answer all questions in part I and five questions from part II. Answers to the questions in part I should be written on the question paper as directed and handed in with the other answer paper. Answers should be numbered and lettered to correspond with the questions.

Part I

Answer all questions in part I.

Write on the line at the right of each statement the word or expression which, when inserted in the blank, will make the statement true. [17]

- 1 The most abundant gas in the atmosphere is .... 1.....
2 Headward erosion of a valley glacier results in the formation of a (an) .... 2.....
3 The rotation of the earth causes the moon to rise in the .... 3.....
4 The earth revolves about the sun at a rate of about one degree per .... 4.....
5 The Niagara River is in its ... stage. 5.....
6 The element, ..., makes up about 50% of the earth's crust. 6.....
7 The approach of a warm front is first indicated by the appearance of ... clouds in the sky. 7.....
8 The Ice Sheet that covered New York State came from the ... center. 8.....
9 Feldspar may change to ... when acted upon by moist air. 9.....
10 The process by which one stream diverts the waters from a near-by stream is called .... 10.....
11 Wherever fog is forming, the relative humidity is ... per cent. 11.....
12 The irregular coast of Maine is due to .... 12.....
13 The line that connects places of equal air pressure is called a (an) .... 13.....
14 Striated and polished bedrock surfaces are formed by .... 14.....
15 Winds spiral toward the center of a ... pressure area. 15.....
16 When the dark portion of the moon is lighted by reflected sunlight, the light we see is called .... 16.....
17 The material deposited by a stream at the base of a mountain forms a (an) .... 17.....

20

Write on the line at the right of *each* statement the *number* preceding the term that best completes the statement. [20]

- 18 The 90th West meridian is the time meridian of the (1)Atlantic (2)Central (3)Eastern (4)Mountain standard time belt. 18.....
- 19 A millibar is (1)a glacial deposit (2)a unit of length (3)a unit of pressure (4)an instrument 19.....
- 20 Vertically rising air currents are indicated by (1)clear skies (2)cumulus clouds (3)fogs (4)stratus clouds 20.....
- 21 India's summer monsoon is (1)cold (2)dry (3)from the northeast (4)wet 21.....
- 22 Folded rock structures are typical of the (1)Appalachian Mountains (2)Appalachian Plateau (3)Colorado Plateau (4)Sierra Nevada Mountains 22.....
- 23 The body nearest the Earth is (1)Mars (2)Moon (3)Sun (4)Proxima Centauri 23.....
- 24 A mountainous region that has been worn nearly to base level is in (1)Florida (2)southern New England (3)the Great Plains (4)western Colorado 24.....
- 25 Deep residual soil indicates a (1)flood plain (2)glaciated region (3)long period of weathering (4)young stage of erosion 25.....
- 26 The energy of a young stream is used chiefly to (1)deepen its valley (2)deposit sediment (3)widen its flood plain (4)widen its valley 26.....
- 27 The Black Hills of South Dakota are (1)block (2)complex (3)domed (4)folded mountains. 27.....
- 28 When the moon is entirely within the earth's umbra, there is (1)a lunar eclipse (2)a partial eclipse (3)a solar eclipse (4)no eclipse 28.....
- 29 When the heat equator is south of the geographic equator, the (1)northeast trades reverse their direction (2)northeast trades become hooked (3)southeast trades reverse their direction (4)southeast trades become hooked 29.....
- 30 The direction in which the Ice Sheet moved over New York State can be determined by (1)drumlins (2)ground moraine (3)kames (4)kettle holes 30.....
- 31 A parallel of latitude that falls in New York State is the (1) 13° (2) 22° (3) 43° (4) 75° parallel. 31.....
- 32 "Shooting stars" are (1)asteroids (2)comets (3)meteors (4)stars 32.....
- 33 The earth's orbit is (1)circular (2)rectangular (3)slightly elliptical (4)very elliptical 33.....
- 34 High clouds always composed of ice crystals are (1)alto-stratus (2)cirrus (3)strato-cumulus (4)stratus 34.....
- 35 Air masses that move toward the United States from northern Canada are (1)cP (2)cT (3)mP (4)mT air masses. 35.....
- 36 Hurricanes that invade our eastern coastal region originate in the vicinity of (1)Brazil (2)Newfoundland (3)the Mississippi Valley (4)the West Indies 36.....
- 37 When both the wet and dry bulb readings of a psychrometer are 70°F., the relative humidity is (1)0% (2)50% (3)70% (4)100% 37.....

In some of the following statements the italicized term makes the statement incorrect. For each *incorrect* statement write on the line at the right the term that must be substituted for the italicized term to make the statement correct. For each *correct* statement, write the word *true* on the line at the right. [13]

- 38 The *revolution* of the moon causes its phases. 38.....
- 39 Synclines are associated with *block* mountains. 39.....

40 An instrument used to record air pressure is the <i>barograph</i> .	40.....
41 A fast-moving cold front is usually accompanied by <i>cumulus</i> clouds.	41.....
42 Unattached sand bars parallel to a coastline are called <i>spits</i> .	42.....
43 Sinkholes owe their origin to <i>glaciers</i> .	43.....
44 An abandoned water gap is a <i>wind gap</i> .	44.....
45 Frozen rain is called <i>snow</i> .	45.....
46 The Columbia Plateau was formed by <i>vulcanism</i> .	46.....
47 Natural levees are built by <i>wave</i> action.	47.....
48 The water-bearing layer (aquifer) of an artesian formation may be <i>sandstone</i> .	48.....
49 The seismograph is an instrument that records <i>rainfall</i> .	49.....
50 Yellowstone National Park is known for its <i>geysers</i> .	50.....

**Part II**

**Answer five questions from part II.**

- 1 *a* Name *one* igneous rock and explain how igneous rocks are formed. [2]  
*b* Name *one* sedimentary rock and explain how sedimentary rocks are formed. [2]  
*c* Name *one* metamorphic rock and explain how metamorphic rocks are formed. [2]  
*d* Name the principal mineral in (1) sandstone, (2) limestone. [2]  
*e* Describe a simple test by which marble may be distinguished from quartzite. [2]
  
- 2 *a* A topographic map has a contour interval of 20 feet. What is meant by a contour interval of 20 feet? [2]  
*b* Explain why some maps have a contour interval of 20 feet, while others have a contour interval of 100 feet. [2]  
*c* A mountain is steeper on one side than on the other. How does the topographic map show this? [2]  
*d* Show how *each* of the following is indicated on a contour map: (1) a hill, (2) a drumlin, (3) a stream, (4) a kettle hole. [Use at least three contour lines for *each* sketch.] [4]
  
- 3 *a* Define latitude. [Indicate the unit used.] [2]  
*b* Give the latitude of (1) the North Pole, (2) the Tropic of Capricorn. [2]  
*c* Explain how latitude is determined at sea on a clear night. [2]  
*d* Define longitude. [Indicate the unit used.] [2]  
*e* What is the longitude of a ship whose local time is two hours later than Greenwich time? [2]
  
- 4 *a* Draw the weather map symbol which would show that a station has a clear sky and a southwest wind of force 5 on the Beaufort scale. [3]  
*b* What connection is there between the direction from which a wind is blowing and its temperature? [2]  
*c* Why are east winds along the coast of New Jersey more likely to bring cloudy skies than are west winds? [2]  
*d* An air mass is labeled *mTk*. What does *each* letter tell us about the air mass? [3]

- 5 Explain each of *five* of the following true statements: [10]
- a Deltas are more common in lakes than along seacoasts.
  - b Lakes on flood plains are usually crescent-shaped.
  - c Northern Long Island is hilly while southern Long Island is level.
  - d The Catskill Mountains are classified as a plateau region.
  - e Hawaiian volcanoes are broader and gentler in slope than most Mediterranean volcanoes.
  - f Caverns are common in Virginia.
- 6 a Distinguish between weather and climate. [2]
- b Name *two* factors that control climate and describe the effect of each. [4]
  - c Air descending the side of a mountain becomes compressed. Why does this make the air comparatively dry? [2]
  - d Explain how hailstones acquire their onion-like structure. [2]
- 7 a Compare the doldrum belt and the horse latitude belt with respect to (1) state of sky, (2) direction of air movement, (3) air pressure. [3]
- b Show by *labeled* diagram the planetary wind and pressure belts of the Northern Hemisphere. [6]
  - c In which wind belt is New York State located? [1]
- 8 a Explain why earthquakes occur in regions of young mountains. [2]
- b In which volcanic belt is *each* of the following located: (1) Italy, (2) Japan? [2]
  - c Explain how each of *three* of the following results from volcanic action: (1) crater lake, (2) dike, (3) domed mountain, (4) sill. [6]