1. Base your answer to the following question on the diagram and table below.

![Diagram of mineral sample A](image)

**Mineral Density Table**

<table>
<thead>
<tr>
<th>Mineral</th>
<th>Density (g/cm³)</th>
<th>Mineral</th>
<th>Density (g/cm³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gypsum</td>
<td>2.3</td>
<td>Hornblende</td>
<td>3.2</td>
</tr>
<tr>
<td>Orthoclase</td>
<td>2.6</td>
<td>Chalcopyrite</td>
<td>4.2</td>
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<tr>
<td>Quartz</td>
<td>2.7</td>
<td>Pyrite</td>
<td>5.0</td>
</tr>
<tr>
<td>Calcite</td>
<td>2.7</td>
<td>Magnetite</td>
<td>5.2</td>
</tr>
<tr>
<td>Dolomite</td>
<td>2.9</td>
<td>Galena</td>
<td>7.5</td>
</tr>
<tr>
<td>Fluorite</td>
<td>3.2</td>
<td>Copper</td>
<td>8.9</td>
</tr>
</tbody>
</table>

Under identical conditions, several samples of the mineral pyrite are measured, and their densities are compared. The values obtained should show that

A) rounded samples are more dense than rough samples
B) large samples are more dense than small samples
C) small samples are more dense than large samples
D) all the pyrite samples have the same density

2. In order to make observations, an observer must always use

A) experiments
B) the senses
C) proportions
D) mathematical calculations

3. Which statement about an unidentified rock sample is most likely an inference?

A) The rock is composed of large crystals.
B) The rock has shiny, wavy mineral bands.
C) The rock is a metamorphic rock.
D) The rock has no visible fossils.

4. Which statement best illustrates a classification system?

A) A glacier melts at the rate of one meter per year.
B) Ocean depths are measured by using sonar.
C) Snowfall predictions for winter storms vary.
D) Stars are grouped according to their color.

5. A pebble has a mass of 35 grams and a volume of 14 cubic centimeters. What is its density?

A) 0.4 g/cm³  B) 2.5 g/cm³  C) 490 g/cm³  D) 4.0 g/cm³

6. The Earth's actual shape is most correctly described as

A) a circle
B) a perfect sphere
C) an oblate sphere
D) an eccentric ellipse

7. In which two temperature zones of the atmosphere does the temperature increase with increasing altitude?

A) troposphere and stratosphere
B) troposphere and mesosphere
C) stratosphere and thermosphere
D) mesosphere and thermosphere

8. An air temperature of 95°C most often exists in which layer of the atmosphere?

A) oxygen
B) nitrogen
C) hydrogen
D) carbon dioxide

9. Which element has the highest percentage by volume in the troposphere?

A) oxygen
B) nitrogen
C) hydrogen
D) carbon dioxide

10. From Utica, New York, Polaris is observed at an altitude of approximately

A) 43°  B) 47°  C) 75°  D) 90°
11. What is the approximate altitude of the mesopause in the atmosphere?
   A) 50 km  B) 66 km  C) 82 km  D) 90 km

12. Earth's hydrosphere is best described as the
   A) solid outer layer of Earth  
   B) liquid outer layer of Earth  
   C) magma layer located below Earth's stiffer mantle  
   D) gaseous layer extending several hundred kilometers from Earth into space

13. The pie graph below shows the elements comprising Earth's crust in percent by mass.
   ![Pie chart]

   Which element is represented by the letter X?
   A) silicon  B) lead  C) nitrogen  D) hydrogen

14. If an observer on Earth views Polaris on the horizon, the observer is located at the
   A) equator (0°)  
   B) North Pole (90° N)  
   C) Tropic of Cancer (23.5° N)  
   D) Tropic of Capricorn (23.5° S)

15. What time is it in Greenwich, England (at 0° longitude), when it is noon in Massena, New York?
   A) 7 a.m.  B) noon  C) 5 p.m.  D) 10 p.m.

16. Approximately what are the coordinates of the Hawaii Hot Spot?
   A) 50° N, 120° W  B) 25° N, 158° E  C) 25° N, 158° W  D) 25° S, 158° E

17. Which material is made mostly of the mineral quartz?
   A) sulfuric acid  B) pencil lead  C) plaster of paris  D) window glass

18. The diagram below shows latitude measurements every 10 degrees and longitude measurements every 15 degrees.
   ![Diagram]

   What is the latitude and longitude of point X?
   A) 40° S 45° E  B) 50° N 45° W  C) 60° S 30° W  D) 75° N 30° E

19. The diagram below shows an observer on Earth measuring the altitude of Polaris.
   ![Diagram]

   What is the latitude of this observer?
   A) decrease  B) increase  C) remain the same

20. As a person travels due west across New York State, the altitude of Polaris will
   A) decrease  B) increase  C) remain the same

21. Which type of rock is most likely to contain fossils?
   A) granite  B) gneiss  C) shale  D) metaconglomerate
22. The lines on which set of views best represent Earth’s latitude system?

A) [Equatorial view]  [Polar view]
B) [Equatorial view]  [Polar view]
C) [Equatorial view]  [Polar view]
D) [Equatorial view]  [Polar view]

23. Which mineral can be found in all samples of rhyolite and andesite?

A) pyroxene  B) quartz  C) biotite  D) potassium feldspar

24. Igneous, sedimentary, and metamorphic rocks are usually composed of

A) intergrown crystals  B) fossils  C) minerals  D) sediments

25. Which graph best represents the textures of granite, pegmatite, and rhyolite?

A) [Texture graph]  B) [Texture graph]
C) [Texture graph]  D) [Texture graph]

26. The topographic map below shows a hill. Points X and Y represent locations on the hill’s surface. Elevations are shown in meters.

What is the gradient between points X and Y?

A) 40 m/km  B) 80 m/km  C) 100 m/km  D) 120 m/km

27. The table below shows the hardness of four common materials.

<table>
<thead>
<tr>
<th>Material</th>
<th>Hardness</th>
</tr>
</thead>
<tbody>
<tr>
<td>human fingernail</td>
<td>2.5</td>
</tr>
<tr>
<td>copper penny</td>
<td>3.0</td>
</tr>
<tr>
<td>window glass</td>
<td>4.5</td>
</tr>
<tr>
<td>steel nail</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Which statement best describes the hardness of the mineral dolomite?

A) Dolomite can scratch window glass, but cannot be scratched by a fingernail.
B) Dolomite can scratch window glass, but cannot be scratched by a steel nail.
C) **Dolomite can scratch a copper penny, but cannot be scratched by a fingernail.**
D) Dolomite can scratch a copper penny, but cannot be scratched by a steel nail.
28. Base your answer to the following question on the isoline map below, which shows the average yearly precipitation, in inches, across New York State.

Approximately how many inches of average yearly precipitation does Rochester, New York, receive?
A) 26  B) 30  C) 38  D) 42

29. Which process led to the formation of thick salt deposits found in the bedrock at some locations in New York State?
A) melting  B) runoff  C) condensation  D) evaporation

30. Which sedimentary rocks are clastic and consist of particles that have diameters smaller than 0.006 centimeter?
A) conglomerate and sandstone  B) siltstone and shale  C) bituminous coal and breccia  D) fossil limestone and chemical limestone

31. Which rock is sedimentary in origin and formed as a result of chemical processes?
A) granite  B) shale  C) breccia  D) dolostone

32. Which rock was organically formed and sometimes contains fossilized plant impressions?
A) rock gypsum  B) phyllite  C) breccia  D) coal

33. The flowchart below illustrates the change from melted rock to basalt.

The solidification of the melted rock occurred
A) slowly, resulting in fine-grained minerals  B) slowly, resulting in coarse-grained minerals  C) rapidly, resulting in coarse-grained minerals  D) rapidly, resulting in fine-grained minerals
34. What is the approximate gradient between point X and point Y?
A) 100 ft/mi  B) 250 ft/mi  C) 500 ft/mi  D) 1,000 ft/mi
35. What is the elevation of point A on the topographic map?
A) 1,700 ft  B) 1,650 ft  C) 1,600 ft  D) 1,550 ft
36. Which intrusive igneous rock could be composed of approximately 60% pyroxene, 25% plagioclase feldspar, 10% olivine, and 5% amphibole?
A) granite  B) rhyolite  C) gabbro  D) basalt
37. Which process is necessary for the formation of igneous rocks?
A) erosion  B) deposition  C) solidification  D) metamorphism
38. The rock shown below has a foliated texture and contains the minerals amphibole, quartz, and feldspar arranged in coarse-grained bands.
Which rock is shown?
A) slate  B) dunite  C) gneiss  D) quartzite
39. The contour map below shows elevations recorded in meters. Line $AB$ is a reference line on the map.

Which graph best represents the profile from point $A$ to point $B$?

40. What is Earth’s inferred interior pressure, in millions of atmospheres, at a depth of 3500 kilometers?

A) 1.9  B) 2.8  C) 5500  D) 6500

41. The diagram below shows four rock samples.

Which sample best shows the physical properties normally associated with regional metamorphism?

A) $A$  B) $B$  C) $C$  D) $D$

42. Which part of Earth’s interior is inferred to have convection currents that cause tectonic plates to move?

A) rigid mantle  B) asthenosphere  
C) outer core  D) inner core
43. Base your answer to the following question on the topographic map shown below. Letters A, B, C, and D represent locations on Earth's surface. The triangular symbol marks the highest elevation on Patty Hill. Elevations are shown in feet.

On the grid below, construct a profile of the land surface along line CD. Plot the elevation of each contour line that crosses line CD. Connect the plots with a line to complete the profile.

44. Rocks are classified as igneous, sedimentary, or metamorphic based primarily on their

A) texture  
B) crystal or grain size  
C) method of formation  
D) mineral composition

45. Earth’s outer core is best inferred to be

A) liquid, with an average density of approximately 4 g/cm³  
B) liquid, with an average density of approximately 11 g/cm³  
C) solid, with an average density of approximately 4 g/cm³  
D) solid, with an average density of approximately 11 g/cm³

46. Why is Earth’s outer core inferred to be a liquid?

A) P-waves can pass through the outer core.  
B) P-waves cannot pass through the outer core.  
C) S-waves can pass through the outer core.  
D) S-waves cannot pass through the outer core.

47. Compared to Earth’s continental crust, Earth’s oceanic crust is

A) thinner and more dense  
B) thinner and less dense  
C) thicker and more dense  
D) thicker and less dense
48. Base your answer to the following question on the map below, which shows the snowfall from the fall of 1976 through the spring of 1977, measured in inches, for most of New York State. The 200-inch snowfall isolines are shown on the map.

On the map above, draw the 100-inch snowfall isoline. Extend the isoline to the edges of New York State.

49. The geologic cross section below shows limestone that was intruded. Part of the limestone (zone A) was heated intensely but was not melted.

Which type of rock most likely formed in zone A?  
A) gneiss  
B) slate  
C) marble  
D) obsidian

50. Which temperature is inferred to exist in Earth’s plastic mantle?  
A) 2000°C  
B) 3000°C  
C) 5000°C  
D) 6000°C

51. What happens to the density and temperature of rock within Earth’s interior as depth increases?  
A) density decreases and temperature decreases  
B) density decreases and temperature increases  
C) density increases and temperature increases  
D) density increases and temperature decreases

52. The Earth's core is believed to be composed primarily of  
A) oxygen and silicon  
B) aluminum and silicon  
C) iron and nickel  
D) carbon and iron
53. Base your answer to the following question on the drawings of six sedimentary rocks labeled A through F.

A) Conglomerate  B) Breccia  C) Sandstone  D) Shale  E) Limestone  F) Rock salt

Which table shows the rocks correctly classified by texture?

A)  

<table>
<thead>
<tr>
<th>Texture</th>
<th>clastic</th>
<th>bioclastic</th>
<th>crystalline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock</td>
<td>A, B, C, D</td>
<td>E</td>
<td>F</td>
</tr>
</tbody>
</table>

B)  

<table>
<thead>
<tr>
<th>Texture</th>
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<th>bioclastic</th>
<th>crystalline</th>
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<td>A, B, C</td>
<td>D</td>
<td>E, F</td>
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</table>

C)  

<table>
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<tbody>
<tr>
<td>Rock</td>
<td>A, C</td>
<td>B, E</td>
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D)  

<table>
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<tr>
<th>Texture</th>
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<tbody>
<tr>
<td>Rock</td>
<td>A, B, F</td>
<td>E</td>
<td>C, D</td>
</tr>
</tbody>
</table>

54. The first S-wave arrived at a seismograph station 11 minutes after an earthquake occurred. How long after the arrival of the first P-wave did this first S-wave arrive?

A) 3 min 15 s  B) 4 min 55 s  C) 6 min 05 s  D) 9 min 00 s

55. A P-wave takes 8 minutes and 20 seconds to travel from the epicenter of an earthquake to a seismic station. Approximately how long will an S-wave take to travel from the epicenter of the same earthquake to this seismic station?

A) 6 mm 40 sec  B) 9 mm 40 sec  C) 15 mm 00 sec  D) 19 mm 00 sec

56. Landscapes will undergo the most chemical weathering if the climate is

A) cool and dry  B) cool and wet  C) warm and dry  D) warm and wet

57. An earthquake's P-wave arrived at a seismograph station at 02 hours 40 minutes 00 seconds. The earthquake's S-wave arrived at the same station 2 minutes later. What is the approximate distance from the seismograph station to the epicenter of the earthquake?

A) 1,100 km  B) 2,400 km  C) 3,100 km  D) 4,000 km

58. A seismograph station recorded the arrival of the first P-wave at 7:32 p.m. from an earthquake that occurred 4000 kilometers away. What time was it at the station when the earthquake occurred?

A) 7:20 p.m.  B) 7:25 p.m.  C) 7:32 p.m.  D) 7:39 p.m.
59. Base your answer to the following question on the diagram below, which shows the results of three different physical tests, A, B, and C, that were performed on a mineral.

Test A
Struck with a hammer
Separate pieces with cleavage at two different angles

Test B
Rubbed on an unglazed porcelain plate
Greenish black powder

Test C
Rubbed on a glass square
Scratch in glass

The luster of this mineral could be determined by
A) using an electronic balance
B) using a graduated cylinder
C) observing how light reflects from the surface of the mineral
D) observing what happens when acid is placed on the mineral

60. The block diagram below shows the boundary between two tectonic plates.

Which type of plate boundary is shown?
A) divergent  B) convergent  C) transform  D) complex

61. The Mariana Trench was most likely created by the
A) convergence of the Pacific and Philippine Plates
B) divergence of the Eurasian and Philippine Plates
C) sliding of the Pacific Plate past the North American Plate
D) movement of the Pacific Plate over the Hawaii Hot Spot

62. The movement of tectonic plates is inferred by many scientists to be driven by
A) tidal motions in the hydrosphere
B) density differences in the troposphere
C) convection currents in the asthenosphere
D) solidification in the lithosphere

63. The diagram below shows granite bedrock with cracks. Water has seeped into the cracks and frozen. The arrows represent the directions in which the cracks have widened due to weathering.

Which statement best describes the physical weathering shown by the diagram?
A) Enlargement of the cracks occurs because water expands when it freezes.
B) This type of weathering occurs only in bedrock composed of granite.
C) The cracks become wider because of chemical reactions between water and the rock.
D) This type of weathering is common in regions of primarily warm and humid climates.
64. Base your answer to the following question on the two tables below and on your knowledge of Earth science. Table 1 shows the composition, hardness, and average density of four minerals often used as gemstones. Table 2 lists the minerals in Moh's Scale of Hardness from 1 (softest) to 10 (hardest).

<table>
<thead>
<tr>
<th>Gemstone Mineral</th>
<th>Composition</th>
<th>Hardness</th>
<th>Average Density (g/cm³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>emerald</td>
<td>Be₂Al₂(Si₆O₁₈)</td>
<td>7.5–8</td>
<td>2.7</td>
</tr>
<tr>
<td>sapphire</td>
<td>Al₂O₃</td>
<td>9</td>
<td>4.0</td>
</tr>
<tr>
<td>spinel</td>
<td>MgAl₂O₄</td>
<td>8</td>
<td>3.8</td>
</tr>
<tr>
<td>zircon</td>
<td>ZrSiO₄</td>
<td>7.5</td>
<td>4.7</td>
</tr>
</tbody>
</table>

The hardness and density of each gemstone is based primarily on the gemstone’s

A) internal arrangement of atoms  
B) geologic time of formation  
C) oxygen content  
D) natural abundance  

65. Base your answer to the following question on the cross section below. Rock units are labeled 1 through 8. The line between A and A’ indicates an unconformity.

Which rock most probably formed in the contact metamorphic zone within rock unit 6?

A) marble  
B) basalt  
C) quartzite  
D) hornfels
66. Base your answer to the following question on the diagram below, which represents a scheme for classifying rocks. The letters A, B, C and X, Y, Z represent missing labels.

Which rocks could be represented by circles X, Y, and Z?

A) shale, slate, and schist
B) sandstone, shale, and siltstone
C) anthracite coal, metaconglomerate, and rock salt
D) breccia, gneiss, and rhyolite

67. The formation of soil is primarily the result of

A) stream erosion and mass movement
B) stream deposition and runoff
C) precipitation and wind erosion
D) weathering and biological activity

68. The mineral composition of a residual soil is most affected by the

A) depth of the water table
B) elevation of the surface
C) steepness of hillslopes
D) type of bedrock material
69. The graph below shows the relationship between the cooling time of magma and the size of the crystals produced.

Which graph correctly shows the relative positions of the igneous rocks granite, rhyolite, and pumice?

A) 

B) 

C) 

D)
70. The generalized cross section below shows the sedimentary rock layers at Niagara Falls in western New York State.

Which rock layer appears to be most resistant to weathering and erosion?

A) **Lockport dolostone**  B) Rochester shale  
C) Grimsby sandstone  D) Queenston shale
The Tonga Trench is located at the tectonic boundary between the Pacific Plate and the

A) Antarctic Plate  B) Philippine Plate
C) Indian-Australian Plate  D) Nazca Plate
72. Base your answer to the following question on the map of the Mid-Atlantic Ridge shown below. Points A through D are locations on the ocean floor. Line XY connects locations in North America and Africa.

In which cross section do the arrows best show the convection occurring within the asthenosphere beneath line XY?

A) ![Diagram A]

B) ![Diagram B]

C) ![Diagram C]

D) ![Diagram D]
<table>
<thead>
<tr>
<th></th>
<th>Answer Key</th>
<th></th>
<th>Answer Key</th>
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