

Exam

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) The largest object in the solar system is: 1) _____

- A) Earth
- B) Saturn
- C) Jupiter
- D) the Sun
- E) the Earth's Moon

Answer: D

Explanation: A)
B)
C)
D)
E)

2) What type of map is used primarily to show the shape of the land by simulating light and dark shading on the hills and valleys? 2) _____

- A) satellite image
- B) topographic map
- C) shaded relief map
- D) geologic map

Answer: C

Explanation: A)
B)
C)
D)

3) What happens to material that is hotter than its surrounding material deep within the Earth? 3) _____

- A) Nothing. The hot material doesn't move at all.
- B) The hot material slowly moves up toward the surface.
- C) The hot material moves slowly down toward the core.

Answer: B

Explanation: A)
B)
C)

4) Which of the following is true about forces and energy imposed on Earth from space?

4) _____

- A) Our massive Sun is the only object that exerts a gravitational pull on Earth.
- B) Internal processes within the Moon produce light during the night.
- C) Sun's electromagnetic energy is all blocked by Earth's protective atmosphere.
- D) All of these.
- E) None of these.

Answer: E

Explanation: A)
B)
C)
D)
E)

5) A snowball that rolls down a hill, gradually gaining more and more mass and rolling faster and faster as it continues, would be an example of a(n)

5) _____

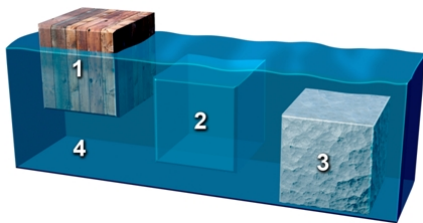
- A) negative feedback system.
- B) closed system.
- C) positive feedback system.
- D) open system.

Answer: C

Explanation: A)
B)
C)
D)

6) This figure shows three blocks in water. Which of these materials is the densest?

6) _____



- A) block 1
- B) block 2
- C) block 3
- D) the water 4

Answer: C

Explanation: A)
B)
C)
D)

- 7) Which of the following is an example of quantitative data? 7) _____
- A) the volcano is releasing much steam
 - B) North America is moving across Earth's surface several centimeters per year
 - C) the river has flooded a low-lying area
 - D) volcanoes are dangerous
 - E) when held, one rock feels heavier than another rock

Answer: B

Explanation: A)
B)
C)
D)
E)

- 8) Radioactive decay in the Earth, especially in the Earth's crust, creates a tremendous amount of: 8) _____
- A) pressure
 - B) heat

Answer: B

Explanation: A)
B)

- 9) What steps are involved in having a hypothesis become an established theory? 9) _____
- A) A United Nations scientific panel votes on whether the hypothesis is accepted.
 - B) A U.S. government agency votes on whether the hypothesis is accepted.
 - C) The hypothesis makes sense when explained by politicians.
 - D) The hypothesis is consistent with new data and investigations used to test its predictions.

Answer: D

Explanation: A)
B)
C)
D)

- 10) If you wanted to determine how deep a rock layer was below a particular point on the surface, what type of figure would be most useful? 10) _____
- A) topographic map
 - B) geologic cross section
 - C) satellite image
 - D) evolutionary diagram
 - E) shaded relief map

Answer: B

Explanation: A)
B)
C)
D)
E)

11) How does an observation become valid?

11) _____

- A) A guess is made to approximate a measurement and the guess is recorded.
- B) An uncalibrated instrument is used to make a measurement and the measurements recorded.
- C) A series of specific measurements is made, repeated, and recorded.

Answer: C

Explanation: A)
B)
C)

12) The closest object to the Earth is (the):

12) _____

- A) Mars
- B) Moon
- C) Venus
- D) Sun

Answer: B

Explanation: A)
B)
C)
D)

13) Choose appropriate way(s) that hot springs might impact people living nearby:

13) _____

- A) provides geothermal power
- B) increases likelihood of earthquakes
- C) enables easy transportation of goods

Answer: A

Explanation: A)
B)
C)

14) Which of the following map or diagram would best show you the shape of the land surface?

14) _____

- A) shaded-relief map
- B) stratigraphic section
- C) geologic map
- D) satellite image

Answer: A

Explanation: A)
B)
C)
D)

15) This image would be best used in what situation?

15) _____



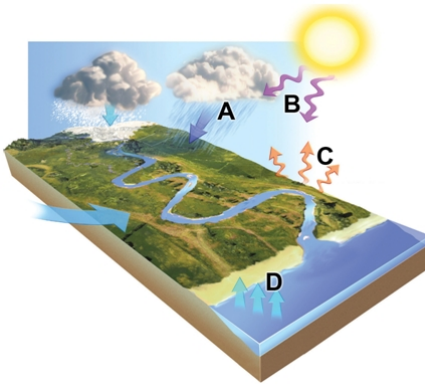
- A) The average gradient for a particular area needs to be known to study surface runoff.
- B) A petroleum company wants to know if any geologic structures in the area could contain oil pools.
- C) The thickness of the surface layer of rock needs to be determined for a construction site.

Answer: A

Explanation: A)
B)
C)

16) Which arrows in this figure indicates evaporation?

16) _____



A) A

B) B

C) C

D) D

Answer: D

Explanation: A)
B)
C)
D)

17) Which of the following is a way that earth science influences Rapid City and areas of the Black Hills, either presently or in the past?

17) _____

- A) tourism from presidents' faces chiseled into granite
- B) flooding along creeks that drain the Black Hills
- C) large gold deposits
- D) tilted rock layers that control the steepness of slopes
- E) all of these

Answer: E

Explanation: A)
B)
C)
D)
E)

18) What type of map is shown here?

18) _____



- A) shaded-relief map
- C) geologic map

- B) topographic map with contours
- D) satellite image

Answer: A

Explanation: A)
B)
C)
D)

19) Which of the following is an example of quantitative data?

19) _____

- A) Augustine volcano represents a dangerous situation
- B) the steam coming from the mountain was dark gray in color
- C) the rocks were too hot to touch
- D) the rocks were dark gray and angular
- E) none of these

Answer: E

Explanation: A)
B)
C)
D)
E)

20) The Moon and Sun cause the tides in Earth's oceans because of:

20) _____

- A) heat
- B) magnetic pull
- C) gravity

Answer: C

Explanation: A)
B)
C)

21) Quantitative data may include:

21) _____

- A) Chemistry of water in a stream
- B) Specific temperature data
- C) Size measurements of sediments
- D) Age of a rock
- E) All of these

Answer: E

Explanation: A)
B)
C)
D)
E)

22) Which of the following locations is probably least at risk for geologic hazards?

22) _____

- A) on soils that gently expand when wet
- B) close to, but upwind of, an active volcano
- C) near an active fault
- D) next to a river in low areas
- E) on gentle slopes away from mountains

Answer: E

Explanation: A)
B)
C)
D)
E)

23) 0° of latitude is found at the _____ and the 90° of latitude is found at the _____.

23) _____

- A) North Pole; Prime Meridian
- B) South Pole; North Pole
- C) South Pole; Equator
- D) Equator; North Pole

Answer: D

Explanation: A)
B)
C)
D)

24) Topographic maps often have some contour lines that are darker than other contour lines.

24) _____

These darker lines are called:

- A) index contours
- B) contour intervals

Answer: A

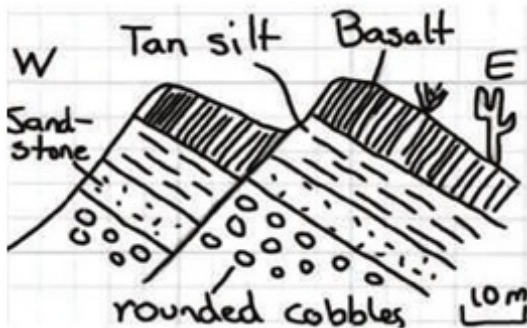
Explanation: A)
B)

- 25) One of the main roles of plants in biogeochemical cycles is to 25) _____
- A) decrease the amount of time that water remains in contact with rocks and soils.
 - B) extract carbon dioxide from the atmosphere.
 - C) harden the soils.
 - D) reduce the rate of weathering.

Answer: B

Explanation: A)
B)
C)
D)

- 26) Which of the following may be interpreted from the sketch? 26) _____



- A) A fault has cut through the rock layers.
- B) The oldest environment represented may have been a river channel, based upon the shape of the clasts.
- C) The fault is younger than all the rock layers present.
- D) All of these.

Answer: D

Explanation: A)
B)
C)
D)

- 27) What specific type of map represents the distribution of rock units and geologic features exposed on the surface? 27) _____

- A) shaded relief map
- B) topographic map
- C) contour map
- D) geologic map

Answer: D

Explanation: A)
B)
C)
D)

28) The Prime Meridian separates 28) _____

- A) runs east-west, like the equator.
- B) the Northern Hemisphere from the Southern Hemisphere.
- C) places experiencing one day on the calendar from places experiencing another day on the calendar.
- D) the Eastern Hemisphere from the Western Hemisphere.

Answer: D

Explanation: A)
B)
C)
D)

29) Which of the following is NOT a way(s) that an oil field might impact people living nearby: 29) _____

- A) increasing likelihood of an oil spill
- B) increasing likelihood of volcanic eruptions
- C) improving the local economy
- D) increasing job opportunities

Answer: B

Explanation: A)
B)
C)
D)

30) The most likely and direct consequence of a reduced rate of "burial" of sediment in the rock cycle would be 30) _____

- A) more rapid deposition of more sediment.
- B) increased rates of rock deformation.
- C) the delayed rate of formation of rock.
- D) slower rates of uplift of rocks back to the surface.

Answer: C

Explanation: A)
B)
C)
D)

31) When you shake fish food into in an aquarium, you are contributing to a(n) 31) _____

- A) positive feedback system.
- B) negative feedback system.
- C) closed system.
- D) open system.

Answer: D

Explanation: A)
B)
C)
D)

- 32) Choose appropriate way(s) that volcanoes might impact people living nearby: 32) _____
- A) Volcanic ash provides fertile sediment for growing crops.
 - B) Ash ejected into the atmosphere blocks sunlight.
 - C) Releases steam and noxious gases into the atmosphere.
 - D) Projectiles thrown into the air can hit your house.
 - E) All of these impact people living nearby.

Answer: E

Explanation: A)
B)
C)
D)
E)

- 33) Which of the following could be associated with a steep slope? 33) _____
- A) a mountain side
 - B) closely spaced contour lines
 - C) a cliff
 - D) all of these

Answer: D

Explanation: A)
B)
C)
D)

- 34) Which type of map or diagram would best indicate elevation of the land surface? 34) _____
- A) satellite image
 - B) topographic map
 - C) stratigraphic section
 - D) shaded-relief map

Answer: B

Explanation: A)
B)
C)
D)

- 35) The lithosphere refers to the 35) _____
- A) land part of the Earth only.
 - B) solid upper part of the Earth, including the crust and uppermost mantle.
 - C) plastic interior of the Earth that moves in response to heating from the interior.
 - D) molten lava that is ejected from volcanoes.

Answer: B

Explanation: A)
B)
C)
D)

36) Which of the following is data rather than an interpretation?

36) _____

- A) The ages of volcanic centers near Yellowstone indicate that North America is moving southwest over the mantle.
- B) Some trees along Yellowstone Lake were flooded when the land north of the lake rose because of magma at depth.
- C) Rising and sinking of the land around Yellowstone is related to underlying magma.
- D) All of these are data rather than interpretations.
- E) All of these are interpretations rather than data.

Answer: E

Explanation: A)
B)
C)
D)
E)

37) The cycling of chemical substances throughout the biosphere is accomplished through

37) _____

- A) the work of living things and physical and chemical processes.
- B) the first law of thermodynamics.
- C) the rock cycle.
- D) vertical transfer of momentum.

Answer: A

Explanation: A)
B)
C)
D)

38) All of the following are likely effects of deforestation except

38) _____

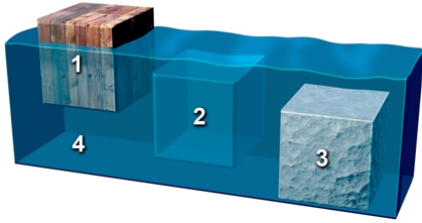
- A) increased rate of soil erosion.
- B) increased rate of destruction of plant and animal habitats.
- C) increased runoff into rivers and streams.
- D) increased rate at which carbon dioxide is extracted out of the atmosphere.

Answer: D

Explanation: A)
B)
C)
D)

39) This figure shows three blocks in water. Which two materials have the same density?

39) _____



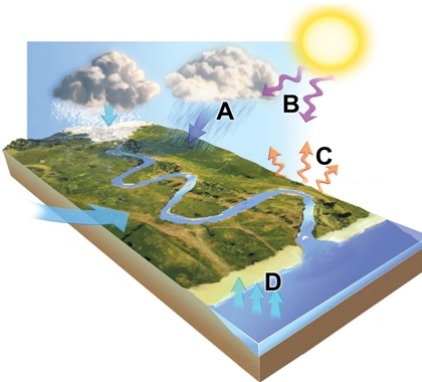
- A) blocks 2 and 3
- B) blocks 1 and 2
- C) blocks 1 and 3
- D) block 2 and the water 4
- E) block 3 and the water 4

Answer: D

Explanation: A)
B)
C)
D)
E)

40) Which arrows in this figure indicates infrared energy, which has been converted from ultraviolet energy?

40) _____



- A) A
- B) B
- C) C
- D) D

Answer: C

Explanation: A)
B)
C)
D)

41) Earth science can help us learn about Earth's past by studying:

41) _____

- A) how global climate has changed since the ice ages
- B) how life in the past was different than today
- C) why continents and oceans are different
- D) why a landscape looks the way it does
- E) all of these

Answer: E

Explanation: A)
B)
C)
D)
E)

42) Which of the following is (are) true for an evolutionary diagram?

42) _____

- A) Shows the progression of changes an area undergoes through time.
- B) Uses a sequence of geologic diagrams to depict the geologic history of an area.
- C) May use block diagrams, cross sections, or maps.
- D) All of these.

Answer: D

Explanation: A)
B)
C)
D)

43) Choose appropriate way(s) that volcanoes might impact people living nearby:

43) _____

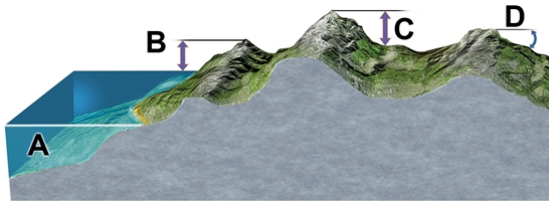
- A) increasing job opportunities
- B) increasing likelihood of an oil spill
- C) improving the local economy
- D) increasing likelihood of volcanic eruptions

Answer: D

Explanation: A)
B)
C)
D)

44) Which letter on the accompanying figure indicates depth?

44) _____



A) A

B) B

C) C

D) D

Answer: A

Explanation: A)
B)
C)
D)

45) The most direct example of an atmosphere-lithosphere exchange is

45) _____

A) an active coral reef colony.

B) a forest being planted.

C) a volcanic eruption.

D) a wave breaking on a shoreline.

Answer: C

Explanation: A)
B)
C)
D)

46) Which of the following is true about density and weight?

46) _____

A) density is lower if you have a larger volume of the same material

B) density is higher if you have a larger volume of the same material

C) a substance is more dense at night than during the day

D) weight depends on the mass of the object and the pull of gravity

E) none of these

Answer: D

Explanation: A)
B)
C)
D)
E)

47) Rainfall in mountain ranges might impact people living nearby by:

47) _____

- A) increasing mudslide hazards
- B) increasing erosion in mountains
- C) increasing flooding hazards
- D) water flowing into streams and rivers, increasing water supply
- E) all of these

Answer: E

Explanation: A)
B)
C)
D)
E)

48) Rocky fragments left over from the formation of the solar system are called:

48) _____

- A) galaxies
- B) asteroids
- C) plutoids

Answer: B

Explanation: A)
B)
C)

49) The difference between open and closed systems is that

49) _____

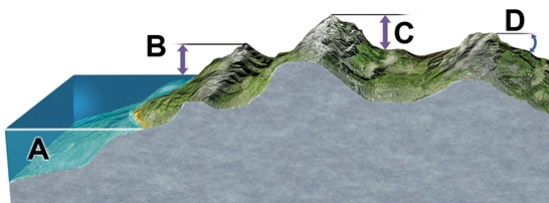
- A) open systems occur on land and closed systems occur in the ocean.
- B) open systems are much simpler in terms of the number of interactions between objects in the system.
- C) open systems can acquire matter and energy, but closed systems cannot.
- D) open systems are not predictable but closed systems are.

Answer: C

Explanation: A)
B)
C)
D)

50) Which letter on the accompanying figure indicates the elevation?

50) _____



- A) A
- B) B
- C) C
- D) D

Answer: B

Explanation: A)
B)
C)
D)

51) A dynamic system refers to a system in which

51) _____

- A) motion causes the matter within the system to contain less energy than it would have contained when sitting still.
- B) matter, energy, or both, are constantly changing their position, amounts, or form.
- C) the first law of thermodynamics does not apply.
- D) water molecules are constantly increasing in speed over time.

Answer: B

Explanation: A)
B)
C)
D)

52) If a description of sediment states that it contains large, angular fragments that are mostly red in color, what type of data would this represent?

52) _____

- A) measurement
- B) qualitative
- C) numerical
- D) quantitative
- E) none of these

Answer: B

Explanation: A)
B)
C)
D)
E)

53) Rates in the Earth system

53) _____

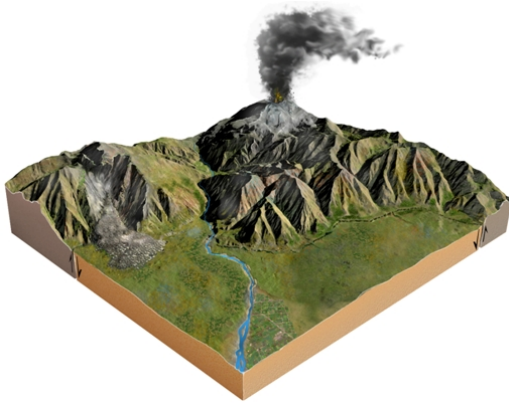
- A) span the range from very rapid to very slow.
- B) are nearly always very fast.
- C) are nearly always very slow.
- D) can never be calculated accurately.

Answer: A

Explanation: A)
B)
C)
D)

54) Which potential geologic hazard is NOT represented by a feature on this figure?

54) _____



- A) flood-prone areas
- B) contaminated groundwater
- C) a landslide
- D) an earthquake
- E) a volcano

Answer: B

Explanation: A)
B)
C)
D)
E)

55) A dry climate might impact how people live by increasing:

55) _____

- A) the risk of drought and other water shortages
- B) the likelihood of earthquakes
- C) both the risk of drought and other water shortages and irrigation needs
- D) irrigation needs
- E) the likelihood of volcanic activity

Answer: C

Explanation: A)
B)
C)
D)
E)

56) Qualitative data may involve which of the following?

56) _____

- A) descriptive words
- B) sketches
- C) labels
- D) images
- E) all of these

Answer: E

Explanation: A)
B)
C)
D)
E)

57) Which of the following is considered one of the outer planets?

57) _____

- A) Moon
- B) Jupiter
- C) Venus
- D) Mars
- E) none of these

Answer: B

Explanation: A)
B)
C)
D)
E)

58) The formula to determine density is:

58) _____

- A) gravity/mass
- B) volume/mass
- C) mass/volume
- D) weight/gravity
- E) mass/weight

Answer: C

Explanation: A)
B)
C)
D)
E)

- 59) A key step in developing a new explanation is:
- A) proposing an interpretation that can be tested
 - B) asking questions about the observations
 - C) making observations about a place or process
 - D) collecting new observations to test predictions
 - E) all of these

59) _____

Answer: E

Explanation: A)
B)
C)
D)
E)

- 60) All of the following are typical effects of dam construction except
- A) increased amount of sediment carried downstream of the dam.
 - B) disruption of natural ecosystems.
 - C) protecting towns from flooding.
 - D) interruption of the normal seasonal variation in flows of water.

60) _____

Answer: A

Explanation: A)
B)
C)
D)

- 61) Which of the following is data rather than an interpretation?
- A) There is an area of low topography southwest of Yellowstone National Park.
 - B) Volcanism in Yellowstone overlies an area of hotter-than-average mantle.
 - C) The low topography southwest of Yellowstone formed when North America moved over a hot spot.
 - D) Recent volcanism at Yellowstone is related to the process that caused the low topography.

61) _____

Answer: A

Explanation: A)
B)
C)
D)

62) One of the main topics discussed in the opening two-page spread of Chapter 1 (The Nature of Earth Science) was: 62) _____

- A) that the two sides of North America are very different
- B) a huge meteorite impact caused the dinosaurs to become extinct
- C) that volcanoes have dramatically changed the atmosphere over time
- D) all of these were mentioned

Answer: A

Explanation: A)
B)
C)
D)

63) In the rock cycle, sediment is stripped away and transported by the process of _____ after the process of _____ has taken place. 63) _____

- A) uplift; solidification.
- B) erosion; weathering.
- C) solidification; uplift.
- D) weathering; erosion.

Answer: B

Explanation: A)
B)
C)
D)

64) Which of the following geologic hazards was NOT discussed for the area around St. George, Utah? 64) _____

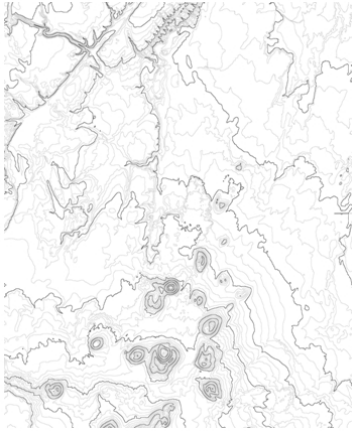
- A) earthquakes from a fault along the Hurricane cliffs
- B) volcanic eruptions
- C) flooding from the main river
- D) flash flooding from the mountains
- E) all of these were discussed

Answer: E

Explanation: A)
B)
C)
D)
E)

65) What type of map is shown here?

65) _____



- A) topographic map with contours
- C) geologic map

- B) shaded-relief map
- D) satellite image

Answer: A

Explanation: A)
B)
C)
D)

66) What type of figure would you use to portray the relative thicknesses of rock units stacked on top of one another?

66) _____

- A) topographic map
- B) evolutionary diagram
- C) shaded relief map
- D) stratigraphic section
- E) satellite image

Answer: D

Explanation: A)
B)
C)
D)
E)

67) Which of the following are ways in which a geologist may determine the density of earth materials?

67) _____

- A) through direct measurement in the laboratory
- B) using instruments to measure the pull of gravity
- C) by measuring the different velocities of seismic waves
- D) all of these

Answer: D

Explanation: A)
B)
C)
D)

- 68) If two places have the same latitude but different longitudes, _____
- A) the two places are directly north or south of each other.
 - B) the places will be directly east or west of each other on some map projections but not others.
 - C) the two places are directly east or west of each other.
 - D) the places will be directly north or south of each other on some map projections but not others.

Answer: C

Explanation: A)
B)
C)
D)

- 69) What type of map depicts the shape of the land surface by showing the elevation of the land surface with a series of lines called contours? _____
- A) topographic map
 - B) satellite image
 - C) geologic map
 - D) shaded relief map

Answer: A

Explanation: A)
B)
C)
D)

- 70) Elevation variations in the land's surface might best be represented by a(n): _____
- A) geologic map
 - B) topographic profile
 - C) outcrop

Answer: B

Explanation: A)
B)
C)

- 71) Which of the following is true about gravity? _____
- A) Gravity causes ice, water, and rocks to move downhill.
 - B) Gravity of the Sun and Moon exert a pull on Earth.
 - C) The mass of the Earth causes a downward pull on objects on Earth.
 - D) All of these.

Answer: D

Explanation: A)
B)
C)
D)

- 72) Which of the following geologic resources was discussed for the area around St. George, Utah? 72) _____
- A) oil field
 - B) floodplains with fertile soils
 - C) a large cement plant
 - D) all of these
 - E) a and b only
- Answer: E
Explanation: A)
B)
C)
D)
E)
- 73) If it is 9:00 a.m. in your time zone, two time zones west of you the clock will say 73) _____
- A) 11:00 a.m.
 - B) 7:00 a.m.
- Answer: B
Explanation: A)
B)
- 74) Slopes that drop or rise sharply in elevation are: 74) _____
- A) plains
 - B) steep
 - C) contours
- Answer: B
Explanation: A)
B)
C)
- 75) Which of the following are ways in which a geoscientist may determine the density of earth materials? 75) _____
- A) calculating the volume of the object, but not its mass
 - B) determining the weight of the object, but not its volume
 - C) none of these
- Answer: C
Explanation: A)
B)
C)
- 76) The "sphere" that intersects with all of the other spheres is the 76) _____
- A) lithosphere.
 - B) hydrosphere.
 - C) atmosphere.
 - D) biosphere.
- Answer: D
Explanation: A)
B)
C)
D)

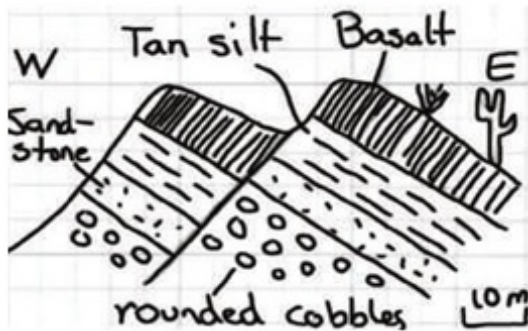
77) A geoscientist performs analyses on a rock to gather data recording its specific chemical composition. This type of data is: 77) _____

- A) a survey B) qualitative C) quantitative

Answer: C

Explanation: A)
B)
C)

78) What may be interpreted from this sketch? 78) _____



- A) The tan silt layer is likely the oldest layer present.
B) The basalt is younger than the fault.
C) None of these.

Answer: C

Explanation: A)
B)
C)

79) What specific type of image uses measurements of different wavelengths of light reflecting from a land surface to create a computer-processed image to show the distribution of different types of plants, rocks, and other features? 79) _____

- A) shaded relief map
B) geologic map
C) satellite images
D) topographic map

Answer: C

Explanation: A)
B)
C)
D)

80) The Earth's orbit around the Sun is almost circular. Therefore, Earth receives about the same amount of year-round: 80) _____

- A) heat and light
B) light and precipitation
C) heat and precipitation

Answer: A

Explanation: A)
B)
C)

81) Mt. Rushmore is composed of which type of rock?

81) _____

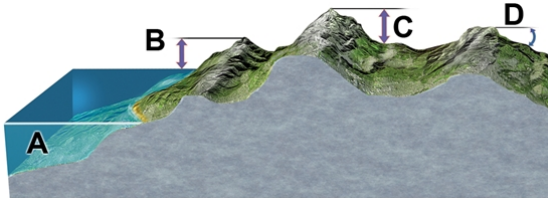
- A) sandstone B) granite C) magma D) basalt

Answer: B

Explanation: A)
 B)
 C)
 D)

82) Which letter on the accompanying figure indicates the amount of topographic relief?

82) _____



- A) A B) B C) C D) D

Answer: C

Explanation: A)
 B)
 C)
 D)

83) Devils Tower was formed by:

83) _____

- A) accumulations of windblown sand
B) sedimentation from river deposits
C) solidification of a magma chamber

Answer: C

Explanation: A)
 B)
 C)

84) When the lithosphere and biosphere interact,

84) _____

- A) plants acquire their nutrients directly from the air so that they do not disturb the nutrient structure in the soil.
B) plants return nutrients to the soil but remove few if any nutrients from the soil.
C) plants remove nutrients from the soil but return few if any nutrients to the soil.
D) plants remove nutrients from the soil and return nutrients to the soil.

Answer: D

Explanation: A)
 B)
 C)
 D)

85) Compared to the outer planets in our solar system, the inner planets are:

85) _____

- A) larger
- B) rocky and so are called terrestrial planets
- C) have better developed planetary rings
- D) contain more gas
- E) none of these

Answer: B

Explanation: A)
B)
C)
D)
E)

86) Which are true of a hypothesis?

86) _____

- A) It may be scrapped or amended after testing.
- B) It may be tentatively assumed.
- C) It can be tested for validity.
- D) All of these.

Answer: D

Explanation: A)
B)
C)
D)

87) Which are true of a hypothesis?

87) _____

- A) It is the same thing as a theory.
- B) It is assumed to be true and requires no further examination.
- C) None of these.

Answer: C

Explanation: A)
B)
C)

88) Which of the following natural resources was discussed for the area around St. George, Utah?

88) _____

- A) floodplains with fertile soils
- B) oil field
- C) a large cement plant
- D) all of these
- E) both oil fields and floodplains with fertile soil

Answer: E

Explanation: A)
B)
C)
D)
E)

89) The main cause of the Rapid City flood of 1972 was:

89) _____

- A) rapid melting of glaciers in the Black Hills because of global warming
- B) poor design and poor construction of a large concrete dam
- C) intense rainfall from a thunderstorm that resulted in a flash flood
- D) failure of a dam because of a large landslide into the reservoir
- E) all of these

Answer: C

Explanation: A)
B)
C)
D)
E)

90) Which of the following was mentioned in the opening two-page spread of Chapter 1 (The Nature of Earth Science)?

90) _____

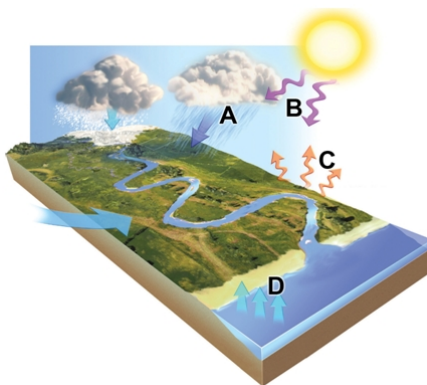
- A) storms
- B) volcanoes
- C) oceans
- D) mountains
- E) all of these were mentioned

Answer: E

Explanation: A)
B)
C)
D)
E)

91) Which arrows in this figure indicates ultraviolet energy, an external energy source?

91) _____



A) A

B) B

C) C

D) D

Answer: B

Explanation: A)
B)
C)
D)

92) Continents differ in appearance from ocean basins because:

92) _____

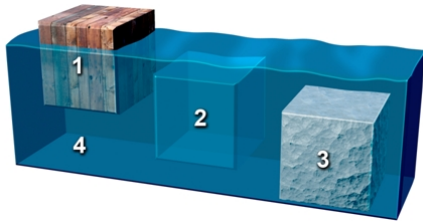
- A) each contains different fossils
- B) each has its own climate
- C) each has its own geologic history

Answer: C

Explanation: A)
B)
C)

93) This figure shows three blocks in water. Which of these materials is the least dense?

93) _____



A) block 1

B) block 2

C) block 3

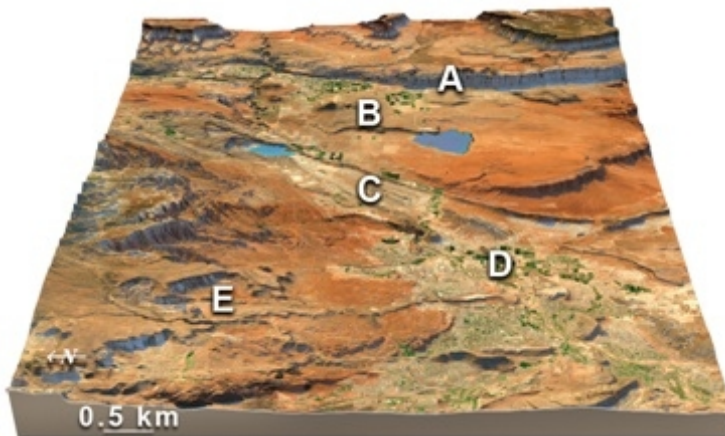
D) the water 4

Answer: A

Explanation: A)
B)
C)
D)

94) Which of the features labeled on the accompanying figure was discussed as a possible source of earthquakes?

94) _____



- A) the cliff at A
- B) the volcano at B
- C) pumping of the oil field at C
- D) shaking during large floods at D
- E) landslides off the mountains at E

Answer: A

Explanation: A)
B)
C)
D)
E)

95) Choose appropriate way(s) that steep cliffs might impact people living nearby:

95) _____

- A) increases area available to grow crops
- B) favorable location for livestock grazing
- C) increases landslide hazard
- D) easy to build houses on steep cliffs

Answer: C

Explanation: A)
B)
C)
D)

96) What is the most common type of atoms joined together in a process called nuclear fusion 96) _____

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

Answer: A

Explanation: A)
 B)
 C)
 D)

97) Which of the following is NOT a way earth science informs us about Earth's past? 97) _____

- A) why continents and oceans are different
B) how life in the past was different than today
C) how the first second of the universe differed from a second today
D) how past global climate was different than today
E) why a landscape looks the way it does today

Answer: C

Explanation: A)
 B)
 C)
 D)
 E)

98) Slopes in flatter areas are: 98) _____

- A) gentle B) indexes C) elevated D) cliffs

Answer: A

Explanation: A)
 B)
 C)
 D)

99) Which of the following shows the correct order for a scientific explanation? 99) _____

- A) observation - question - hypotheses - predictions - results of investigation - conclusions
B) predictions - hypotheses - results of investigation - question - observation - conclusions
C) hypotheses - question - observation - predictions - results of investigation - conclusions

Answer: A

Explanation: A)
 B)
 C)

- 100) Choose appropriate way(s) that hot springs might impact people living nearby: 100) _____
- A) increases likelihood of earthquakes
 - B) enables easy transportation of goods
 - C) provides geothermal power
- Answer: C
- Explanation: A)
B)
C)
- 101) Which of the following geologic resources was discussed for the area around St. George, Utah? 101) _____
- A) floodplains with fertile soils
 - B) oil field
 - C) a large cement plant
 - D) all of these
 - E) a and b only
- Answer: E
- Explanation: A)
B)
C)
D)
E)
- 102) Greenwich mean time (GMT) is a system of 102) _____
- A) determining what years should be considered leap years and which should not.
 - B) determining when daylight savings time should go into effect.
 - C) identifying the phase of the lunar cycle.
 - D) coordinating the rules for what time should appear on a clock, around the world.
- Answer: D
- Explanation: A)
B)
C)
D)
- 103) Which of the following statements is true about the transfer of energy, matter, or momentum in the atmosphere? 103) _____
- A) Matter is transferred so effectively that the spatial distribution of matter in the atmosphere is uniform.
 - B) No transfer of energy, matter, or momentum can occur in the polar part of the atmosphere.
 - C) Momentum is usually transferred from the surface upward.
 - D) Energy transfer occurs when water changes state between solid, liquid, or gas.
- Answer: D
- Explanation: A)
B)
C)
D)

- 104) Which of the following are ways that the atmosphere interacts with Earth's surface? 104) _____
- A) Earth's atmosphere blocks most of the Sun's harmful ultraviolet radiation.
 - B) The atmosphere includes a low percentage of water vapor, most of which comes from the oceans.
 - C) Some energy that strikes the earth is converted into infrared energy.
 - D) Liquid water on the surface can evaporate, becoming water vapor in the atmosphere.
 - E) All of these.

Answer: E

Explanation: A)
B)
C)
D)
E)

- 105) Continental ice sheets were more common 28,000 years ago than they are today because: 105) _____



- A) the Earth was cooler then than now
- B) the Earth had more water then than now
- C) the Earth was farther away from the Sun then than now

Answer: A

Explanation: A)
B)
C)

- 106) What does the type of evolutionary diagrams discussed in the textbook show? 106) _____
- A) evolution of the ways topographic maps have been drawn during history
 - B) how one creature evolved into another creature
 - C) the sequence of events that deposited the rocks and formed the landscape
 - D) changing of fossils up through a stratigraphic section

Answer: C

Explanation: A)
B)
C)
D)

- 107) Global positioning systems (GPS) can "know" their location by _____
- A) relating slight changes in magnetism and gravity to changes in the distance and direction of movement from the point at which the location of the receiver was last calibrated.
 - B) measuring the time required for radio signals from four or more satellites to reach the receiver.
 - C) relating changes in detected radiation to changes in the position of the Sun.
 - D) continually measuring changes in angle to a stationary reference point, such as a streetlight, in the area of the receiver.

Answer: B

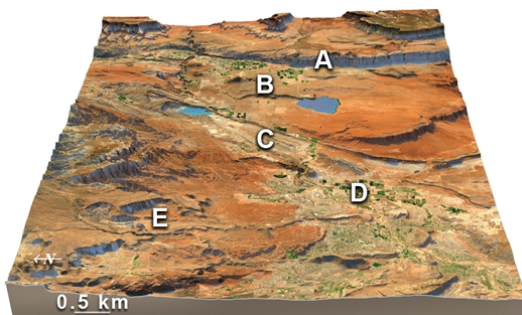
Explanation: A)
B)
C)
D)

- 108) The hydrologic cycle includes all of the following processes except _____
- A) uplift.
 - B) precipitation.
 - C) evaporation.
 - D) runoff.

Answer: A

Explanation: A)
B)
C)
D)

- 109) Which of the features labeled on the accompanying figure was discussed as a possible source of earthquakes? _____



- A) landslides off the mountains at E
- B) the cliff at A
- C) pumping of the oil field at C
- D) the volcano at B
- E) shaking during large floods at D

Answer: B

Explanation: A)
B)
C)
D)
E)

Answer Key
Testname: C1

- 1) D
- 2) C
- 3) B
- 4) E
- 5) C
- 6) C
- 7) B
- 8) B
- 9) D
- 10) B
- 11) C
- 12) B
- 13) A
- 14) A
- 15) A
- 16) D
- 17) E
- 18) A
- 19) E
- 20) C
- 21) E
- 22) E
- 23) D
- 24) A
- 25) B
- 26) D
- 27) D
- 28) D
- 29) B
- 30) C
- 31) D
- 32) E
- 33) D
- 34) B
- 35) B
- 36) E
- 37) A
- 38) D
- 39) D
- 40) C
- 41) E
- 42) D
- 43) D
- 44) A
- 45) C
- 46) D
- 47) E
- 48) B
- 49) C
- 50) B

Answer Key
Testname: C1

- 51) B
- 52) B
- 53) A
- 54) B
- 55) C
- 56) E
- 57) B
- 58) C
- 59) E
- 60) A
- 61) A
- 62) A
- 63) B
- 64) E
- 65) A
- 66) D
- 67) D
- 68) C
- 69) A
- 70) B
- 71) D
- 72) E
- 73) B
- 74) B
- 75) C
- 76) D
- 77) C
- 78) C
- 79) C
- 80) A
- 81) B
- 82) C
- 83) C
- 84) D
- 85) B
- 86) D
- 87) C
- 88) E
- 89) C
- 90) E
- 91) B
- 92) C
- 93) A
- 94) A
- 95) C
- 96) A
- 97) C
- 98) A
- 99) A
- 100) C

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Answer Key

Testname: C1

101) E

102) D

103) D

104) E

105) A

106) C

107) B

108) A

109) B