

Name _____

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

1) _____ is the deepest spot in the ocean.

1) _____

- A) The middle of the Atlantic Ocean
- B) The Mariana Trench
- C) Just offshore of California
- D) The Grand Canyon
- E) The Hudson Canyon

Answer: B

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

2) Which of the following is a central meridian in the standardized time system?

2) _____

- A) 20°W
- B) 15°W
- C) 5°W
- D) 10 °W
- E) 25°W

Answer: B

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

3) The closest position taken by the Earth relative to the Sun is _____ million kilometers.

3) _____

- A) 10
- B) 47
- C) 14,700
- D) 1,470
- E) 147

Answer: E

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

4) On June 21, the Sun's ray are directly over the

4) _____

- A) Arctic Circle.
- B) Equator.
- C) Tropic of Capricorn.
- D) Plane of the Ecliptic.
- E) Tropic of Cancer.

Answer: E

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

- 5) A nebula is
- A) a cloud of gas and dust.
 - B) a black hole.
 - C) a bright star.
 - D) a faded star.
 - E) none of the above

5) _____

Answer: A

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

- 6) The highest numbered latitude used in the geographic grid is _____°.
- A) 100
 - B) 90
 - C) 365
 - D) 360
 - E) 180

6) _____

Answer: B

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

- 7) The word *geography* comes from the Greek, meaning _____.

7) _____

- A) the study of rocks
- B) the study of human culture
- C) drawing of maps
- D) planet measurement
- E) Earth description

Answer: E

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

- 8) Which of the following is a topic of study in a physical geography course?

8) _____

- A) soil
- B) landforms
- C) flora
- D) climate
- E) all of the above

Answer: E

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

- 9) To Earth people, Polaris is an important star because it
- A) is a guide for navigation.
 - B) is the brightest in the sky.
 - C) has shown hints of extraterrestrial life.
 - D) exploded and created a comet.
 - E) is the one usually hidden by the sun.

9) _____

Answer: A

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

- 10) The north end of Earth's axis points towards

A) the Moon. B) Mars. C) Polaris. D) Venus. E) Ork.

10) _____

Answer: C

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

- 11) Which of the below takes the LONGEST time?

11) _____

- A) revolution of the moon
- B) a revolution of the Earth
- C) the rotation of the Earth
- D) a solar day
- E) They all take approximately the same time.

Answer: B

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

- 12) The angular inclination of the Earth's axis with respect to a line perpendicular to the plane of the ecliptic

12) _____

- A) varies through the year.
- B) is 23.5 degrees.
- C) is 66.5 degrees.
- D) is 90 degrees.
- E) is 0 degrees.

Answer: B

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

- 13) The size of the Universe is best described as
- A) in terms of the width of 5 galaxies across.
 - B) small.
 - C) vast beyond comprehension.
 - D) 100,000 light years across.
 - E) 1 astronomical unit across.

13) _____

Answer: C

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

- 14) Using a gnomon, one can
- A) predict the phases of the moon.
 - B) theorize about amount of time since the "big bang".
 - C) tell local time.
 - D) calculate the radius of Earth.
 - E) estimate the exact height of tall mountains.

14) _____

Answer: C

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

- 15) The Earth is one of _____ planets in the solar system.
- A) over one hundred
 - B) four
 - C) eight
 - D) twenty
 - E) thirty six

15) _____

Answer: C

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

- 16) _____ has adopted permanent Daylight Savings Time in effect all year round.
- A) Argentina
 - B) Brazil
 - C) Canada
 - D) Russia
 - E) The U.S.A.

16) _____

Answer: D

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

17) Which of the following is out of order in the ideal application of the scientific method?

17) _____

- A) formulate a rule
- B) design an experiment
- C) observe the outcome of an experiment
- D) observe a phenomenon that stimulates a question
- E) make a hypothesis

Answer: E

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

18) "Greenwich Mean Time" is also known as _____.

18) _____

- A) The Plane of the Ecliptic
- B) Universal Time Coordinated
- C) European Time
- D) Polaris
- E) the perihelion

Answer: B

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

19) The Milky Way is one of, at least, _____ galaxies in the Universe.

19) _____

- A) two million
- B) two thousand
- C) two hundred billion
- D) two trillion
- E) two hundred thousand

Answer: C

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

20) While the United States spans six time zones, Russia is spread over _____ time zones.

20) _____

- A) 3
- B) 9
- C) 24
- D) 36
- E) 12

Answer: B

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

- 21) Pluto's orbit is in the 21) _____
A) Alpha Centauri galaxy.
B) same orbital plane as the main planets in the solar system.
C) "Big Bang" area.
D) Crab Nebula.
E) Kuiper belt.

Answer: E

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

- 22) What happened 5 billion years ago? 22) _____
A) the light we see today left the Sun
B) the "Big Bang" occurred
C) earth's oceans formed
D) the beginning of our solar system
E) The first student flunked a physical geography exam.

Answer: D

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

- 23) How many time zones are contained within Alaska? 23) _____
A) 4 B) 5 C) 2 D) 3 E) 1

Answer: E

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

- 24) One can tell when it is solar noon by observing 24) _____
A) a graticule.
B) a clock.
C) the time of Sunrise.
D) a calendar.
E) the length of shadows.

Answer: E

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

25) One degree of longitude equals 0 miles on the ground at the _____.

25) _____

- A) Arctic Circle
- B) Tropic of Cancer
- C) Antarctic Circle
- D) Tropic of Capricorn
- E) North Pole

Answer: E

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

26) Earth is

26) _____

- A) one of the largest planets.
- B) one of the biggest planets.
- C) one of the planets having the most gas.
- D) the smallest planet.
- E) one of the inner planets.

Answer: E

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

27) At the North Pole, one degree of longitude extends _____ kilometers on the ground.

27) _____

- A) 10
- B) 0
- C) 100
- D) 1,000
- E) 10,000

Answer: B

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

28) At the time of the aphelion, Earth is _____ million kilometers from the Sun.

28) _____

- A) 5.2
- B) 1,520
- C) 152
- D) 52
- E) 15,200

Answer: C

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

29) The response to Earth's rotation is

29) _____

- A) Death Valley.
- B) polar flattening.
- C) equatorial flattening.
- D) wind.
- E) Mt. Everest.

Answer: D

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

30) In science, the term "theory" is

30) _____

- A) a first guess.
- B) an unsupported hunch.
- C) not relevant.
- D) revolution around Earth.
- E) the highest order of understanding.

Answer: E

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

31) Pluto is now classified as a

31) _____

- A) moon.
- B) protostar.
- C) comet.
- D) dwarf planet.
- E) meteorite.

Answer: D

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

32) The Milky Way is a galaxy some _____ light years in diameter.

32) _____

- A) 1,000
- B) 100,000
- C) 10
- D) 100
- E) 10,000

Answer: B

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

- 33) Earth rotates around its rotational axis. A plane at a right angle to and bisecting Earth's axis is known as the _____. 33) _____
- A) Arctic Circle
 - B) North Pole
 - C) plane of the meridian
 - D) plane of the Ecliptic
 - E) plane of the Equator

Answer: E

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

- 34) When the vertical rays of the Sun cross the Equator on their way northward, the date is known as _____ in the Northern Hemisphere. 34) _____
- A) the winter solstice
 - B) the fall equinox
 - C) the perihelion
 - D) the spring equinox
 - E) the summer solstice

Answer: D

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

- 35) At the International Date Line, there is a change of _____. 35) _____
- A) season
 - B) day
 - C) hour
 - D) day and time zone
 - E) year

Answer: B

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

36) The line connecting the points of maximum flattening on Earth's surface is called the

36) _____

- A) Equator.
- B) Plane of the Ecliptic.
- C) Arctic Circle.
- D) radius.
- E) axis.

Answer: E

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

37) The surfaces of the inner planets of our solar system seem to be composed of

37) _____

- A) mineral matter.
- B) frozen carbon dioxide.
- C) molten lava.
- D) gases.
- E) frozen water.

Answer: A

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

38) At New York City, this is the shortest day of the year and the Sun is also lowest in the sky.

38) _____

- A) Vernal equinox
- B) June solstice
- C) Aphelion
- D) Autumnal equinox
- E) December solstice

Answer: E

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

39) Geography is

39) _____

- A) an art, not a science.
- B) a combination of physical and social sciences.
- C) a social science.
- D) a physical science.
- E) much the same as geology.

Answer: B

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

40) Meridians

40) _____

- A) are the same thing as parallels.
- B) are east-west lines.
- C) are numbered from 0-100 in three hemispheres.
- D) diverge as they near the poles.
- E) are semicircles.

Answer: E

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

41) The Earth rotates about its

41) _____

- A) axis.
- B) inclination.
- C) great circle.
- D) Equator.
- E) revolution.

Answer: A

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

42) A cross section of Earth cut from pole to pole would reveal which shape?

42) _____

- A) sine curve
- B) parabola
- C) crescent
- D) circle
- E) ellipse

Answer: E

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

43) Any standard time zone extends _____ degrees of longitude to the east and west of the central meridian.

43) _____

- A) 7.5
- B) 25
- C) 50
- D) 5
- E) 15

Answer: A

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

44) The term "a.m." 44) _____

- A) means "before solar noon".
- B) is no longer used by most of the world.
- C) refers to standard time at Greenwich.
- D) was first used in the 1880s.
- E) means "at solar noon".

Answer: A

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

45) The altitudinal difference (relief) between the top of the tallest mountain and the bottom of the deepest ocean trench is CLOSEST to _____ kilometers. 45) _____

- A) 200,000
- B) 20,000
- C) 2,000
- D) 20
- E) 200

Answer: D

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

46) _____ is considered a dwarf planet. 46) _____

- A) Mars
- B) Pluto
- C) Earth
- D) Neptune
- E) Venus

Answer: B

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

47) The shape of Earth's orbit around the Sun is a(n) 47) _____

- A) circle.
- B) ellipse.
- C) spheroid.
- D) oblate spheroid.
- E) parabola.

Answer: B

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

48) The most important physical effect of the Earth's rotation is _____.

48) _____

- A) seasonal change
- B) to cause continents to "drift"
- C) the alternation of sunlight and darkness
- D) Daylight Saving Time
- E) the blue appearance of clear sky

Answer: C

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

49) At the June solstice, day length varies from _____ hours at the Equator to _____ hours at the North Pole.

49) _____

- A) 12, 24
- B) 0, 24
- C) 24, 12
- D) 24, 0
- E) 12, 0

Answer: A

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

50) The plane of the ecliptic is

50) _____

- A) the same as the plane of the Equator.
- B) another way of describing the latitude of the vertical sun.
- C) not important in physical geography.
- D) the same thing as the Tropic of Cancer.
- E) at an angle from the plane of the Equator.

Answer: E

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

51) The shape of the Milky Way is similar to a(n)

51) _____

- A) sphere.
- B) spiral-shaped disk.
- C) oblate spheroid.
- D) circle.
- E) pancake.

Answer: B

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

- 52) An equinox has the property of
- A) 12 hours of daylight and 12 hours of night at all latitudes.
 - B) the Sun at the same angle at all latitudes.
 - C) the vertical rays of the Sun at the Tropic of Cancer.
 - D) total darkness north of the Arctic Circle.
 - E) 24 hours of darkness at the Equator.

52) _____

Answer: A

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

- 53) In angular measurement, a minute contains _____ seconds.

A) 10 B) 60 C) 0 D) 360 E) 3,600

53) _____

Answer: B

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

- 54) The 0° Meridian is the same line as the _____ .

54) _____

- A) geographic grid
- B) Prime Meridian
- C) Equator
- D) International Date Line
- E) Perihelion

Answer: B

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

- 55) The geographic grid line 180 degrees of longitude from the Prime Meridian is the _____.

55) _____

- A) 180th meridian
- B) Tropic of Cancer
- C) Tropic of Capricorn
- D) 90th meridian
- E) 320th meridian

Answer: A

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

56) A spot on Earth's surface rotates fastest at the _____.

56) _____

- A) Arctic Circle
- B) Equator
- C) North Pole
- D) Tropic of Cancer
- E) Tropic of Capricorn

Answer: B

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

57) Which of the following best describes the latitude and longitude of North America?

57) _____

- A) eastern and southern hemispheres
- B) northern and eastern hemispheres
- C) northern and southern hemispheres
- D) northern and western hemispheres
- E) eastern and western hemispheres

Answer: D

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

58) The circle of illumination just touches the Antarctic Circle on or about _____.

58) _____

- A) March 23
- B) December 21
- C) June 21
- D) September 23
- E) January 1

Answer: C

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

59) Our solar system contains _____ moons revolving around the planets.

59) _____

- A) no
- B) more than one hundred
- C) two
- D) ten
- E) twenty

Answer: B

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

60) The _____ is the basic Système International (metric system) unit of mass.

- A) gram B) mole C) ton D) meter E) ampere

60) _____

Answer: A

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

61) Which of the following is NOT defined by latitude?

61) _____

- A) meridian
B) parallel
C) North Pole
D) Antarctic Circle
E) Arctic Circle

Answer: A

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

62) The farthest north the vertical rays of the Sun ever reach north of the equator, occurs on or about _____.

62) _____

- A) December 21
B) March 23
C) June 21
D) September 23
E) July 4

Answer: C

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

63) Which of the following is not a major topic taught in a course of introductory physical geography?

63) _____

- A) climate
B) population
C) soil
D) landforms
E) flora

Answer: B

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

64) The perihelion is during the month of

64) _____

- A) July.
- B) December.
- C) March.
- D) September.
- E) January.

Answer: E

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

65) The Earth/Sun aphelion occurs once per year during the month of _____.

65) _____

- A) December B) January C) July D) March E) September

Answer: C

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

66) The solar system's outer planets are most likely composed of _____.

66) _____

- A) interstellar dust
- B) granite
- C) basalt
- D) water
- E) gas

Answer: E

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

67) At the Equator, one degree of latitude is approximately equal to

67) _____

- A) 1,000 kilometers of longitude.
- B) one degree of longitude.
- C) a great circle.
- D) all of the above
- E) none of the above

Answer: B

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

68) At the Equator (0°), a given point on Earth's surface travels about _____ kilometers per hour. 68) _____

- A) 16,000 B) 60,000,000 C) 160,000 D) 1,600 E) 1,600,000

Answer: D

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

69) The acceptance of a theory or hypothesis is based on 69) _____

- A) a preponderance of evidence.
B) belief.
C) a hunch.
D) the pronouncements of authorities.
E) all of the above

Answer: A

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

70) Standardization in world time zones, dates from _____. 70) _____

- A) 1884 B) 1684 C) 1984 D) 1784 E) 1584

Answer: A

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

71) Which of the following subsystems includes all living things on Earth? 71) _____

- A) biosphere
B) hydrosphere
C) atmosphere
D) lithosphere
E) stratosphere

Answer: A

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

- 72) The Sun's rays are directly overhead at the _____ on or about December 21. 72) _____
 A) Antarctica Circle
 B) Tropic of Capricorn
 C) North Pole
 D) Tropic of Cancer
 E) Arctic Circle
 Answer: B
 Explanation: A)
 B)
 C)
 D)
 E)
- 73) The moon is some _____ kilometers distant from Earth. 73) _____
 A) 385 B) 3,850 C) 38,500,000 D) 3.85 E) 385,000
 Answer: E
 Explanation: A)
 B)
 C)
 D)
 E)
- 74) The fact that at any time during the year, the Earth's axis is parallel to its orientation at all other times is called its parallelism, or _____. 74) _____
 A) revolution B) polarity C) aphelion D) rotation E) perihelion
 Answer: B
 Explanation: A)
 B)
 C)
 D)
 E)
- 75) The Earth is 3.3 percent closer to the Sun during the Northern Hemisphere _____ than when it is farthest away. 75) _____
 A) Spring B) Winter C) Summer D) Fall E) Aphelion
 Answer: B
 Explanation: A)
 B)
 C)
 D)
 E)
- 76) Earth's radius is CLOSEST to _____ kilometers. 76) _____
 A) 60 B) 6 C) 600 D) 600,000 E) 6,000
 Answer: E
 Explanation: A)
 B)
 C)
 D)
 E)

77) The origin of the universe is called _____ by astronomers.

77) _____

- A) the "nebula"
- B) the "Big Bang"
- C) primordial solar system
- D) the "worm hole"
- E) Earth Day

Answer: B

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

78) Mt. Everest is the tallest mountain on Earth and its altitude is closest to _____ meters.

78) _____

- A) 900
- B) 90
- C) 900,000
- D) 90,000
- E) 9,000

Answer: E

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

79) The first nearly correct measurement of the Earth's circumference was made by _____.

79) _____

- A) Eratosthenes
- B) Newton
- C) Plato
- D) Columbus
- E) Einstein

Answer: A

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

80) The Earth's polar and equatorial diameters vary by _____ percent.

80) _____

- A) 27
- B) 0
- C) 10
- D) 7.5
- E) 0.3

Answer: E

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

81) Our earthly grid system is also referred to as a _____ and consists of lines of latitude and longitude. 81) _____

- A) plane coordinate system
- B) gnomon
- C) great circle system
- D) meridian
- E) graticule

Answer: E

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

82) The _____ equinox of the southern hemisphere takes place when the vertical rays of the sun cross the Equator on the journey southward. 82) _____

- A) vernal
- B) December
- C) winter
- D) July equinox
- E) autumnal

Answer: A

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

83) Before time zones were created in the 1880s, one could encounter _____ time standards on a rail trip across the United States. 83) _____

- A) 5
- B) more than 20
- C) 1
- D) 7
- E) 10

Answer: B

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

84) The distance of 150,000,000 kilometers is CLOSEST to being _____.

84) _____

- A) the average Earth/Sun distance
- B) the circle of illumination
- C) the perihelion
- D) the aphelion
- E) a light year

Answer: A

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

85) The basic unit of distance in the Syst me International (metric system) is the

85) _____

- A) meter.
- B) mole.
- C) ampere.
- D) degree Celsius.
- E) kilogram.

Answer: A

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

86) When the circle of illumination just touches the Arctic Circle and the North Pole is dark, the date is closest to

86) _____

- A) March 23.
- B) June 21.
- C) July 4.
- D) December 21.
- E) September 23.

Answer: D

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

87) The graticule of the Earth is also known as _____.

87) _____

- A) a standard time zone
- B) the perihelion
- C) latitude and longitude
- D) a great circle
- E) analemma

Answer: C

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

88) Rotation of the Earth causes _____.

88) _____

- A) day and night
- B) tides
- C) Coriolis effect
- D) local variations in temperature
- E) all of the above

Answer: E

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

89) The best description of the actual shape of the Earth is as a

89) _____

- A) sphere.
- B) spheroid.
- C) centroid.
- D) oblate spheroid.
- E) circle.

Answer: D

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

90) Which of the following is also an entire great circle?

90) _____

- A) the Equator
- B) any parallel
- C) the Prime Meridian
- D) any line of latitude
- E) any numbered meridian

Answer: A

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

91) The solid, inorganic portion of the Earth system is known as the _____.

91) _____

- A) atmosphere
- B) lithosphere
- C) biosphere
- D) Earth
- E) hydrosphere

Answer: B

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

92) After it was part of a nebula and before it was the Sun, our Sun was a 92) _____
A) asteroid. B) galaxy. C) star. D) comet. E) protostar.

Answer: E

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

93) Suppose you are standing on the standard time meridian of 75°W. Which would be the next 93) _____
standard time meridian to your west?

- A) 100°W
- B) 76°W
- C) 90°W
- D) 180°W
- E) impossible to say

Answer: C

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

94) The amount of time the Earth takes to revolve around the Sun is most properly known as a(n) 94) _____

- A) great circle period.
- B) season.
- C) tropical year.
- D) Earth sol.
- E) astronomical unit.

Answer: C

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

95) The "living zone" in the atmosphere extends from Earth's surface to an altitude of approximately 95) _____
_____ kilometers.

- A) 50
- B) 5
- C) 5,000
- D) 500
- E) 50,000

Answer: B

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

96) The Universe thought to be on the order of _____ billion years old. 96) _____

- A) 3.7 B) 13.7 C) 137 D) 1370 E) .37

Answer: B

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

97) Eratosthenes was the first to accurately measure the Earth's _____. 97) _____

- A) polarity
B) crust
C) circumference
D) hemisphere
E) radius

Answer: C

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

98) When the Sun's rays are directly overhead at the Tropic of Capricorn, it is _____. 98) _____

- A) September 21
B) October 21
C) March 21
D) December 21
E) June 21

Answer: D

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

99) Which of the following distances is CLOSEST TO the actual distance associated with one degree of latitude? 99) _____

- A) 1,000 km B) 100 km C) 10 km D) 10,000 km E) 1 km

Answer: B

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

100) The Sun is a star in the _____ galaxy.

100) _____

- A) Alpha Centauri
- B) Betelgeuse
- C) Orion
- D) Milky Way
- E) Proxima Centauri

Answer: D

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

101) How many degrees of latitude are there between the Tropic of Cancer and the Tropic of Capricorn?

101) _____

- A) 47
- B) 23.5
- C) 0
- D) 180
- E) 90

Answer: A

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

102) Longitude is divided into multiples of _____ degrees for the purpose of delimiting standard time zones.

102) _____

- A) 10
- B) 15
- C) 25
- D) 34
- E) 30

Answer: B

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

103) Universal Time Coordinated is also known as _____.

103) _____

- A) Central Daylight Time
- B) Leap Year Time
- C) Pacific Standard Time
- D) Greenwich Mean Time
- E) The Solstice

Answer: D

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

104) Of the following, which is the first day of spring?

104) _____

- A) Equinox
- B) June solstice
- C) Vernal equinox
- D) March 1
- E) Solstice

Answer: C

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

105) The world is divided into _____ standard zones.

105) _____

- A) 11
- B) 180
- C) 360
- D) 24
- E) 15

Answer: D

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

106) On both the Spring and Fall equinox, the Sun's rays are vertically overhead at the _____.

106) _____

- A) Arctic Circle
- B) Equator
- C) Tropic of Cancer
- D) Tropic of Capricorn
- E) none of the above

Answer: B

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

107) Near the North Pole, one degree of latitude extends _____ kilometer(s) on the ground.

107) _____

- A) 11
- B) 11,111
- C) 111
- D) 1,111
- E) 1

Answer: C

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

- 108) The maximum distance between Earth and Sun occurs in July and is called the _____. 108) _____
A) ecliptic B) aphelion C) sidereal D) perihelion E) Coriolis
Answer: B
Explanation: A)
 B)
 C)
 D)
 E)
- 109) The constant angle between Earth's axis and the Plane of the Ecliptic is called Earth's _____. 109) _____
A) aphelion
B) perihelion
C) Mean Time
D) praxis
E) polarity
Answer: E
Explanation: A)
 B)
 C)
 D)
 E)
- 110) A(n) _____ is a vertical piece of metal on a sundial. 110) _____
A) gnomon
B) circle of illumination
C) hour hand
D) ephemeris
E) solstice
Answer: A
Explanation: A)
 B)
 C)
 D)
 E)
- 111) The Milky Wave is one of over _____ galaxies in the universe. 111) _____
A) one hundred thousand
B) one million
C) one billion
D) one hundred
E) one thousand
Answer: C
Explanation: A)
 B)
 C)
 D)
 E)

112) The cause of Earth's seasons is the _____
A) polarity of the axis.
B) cold experienced each wintertime.
C) varying distance between Earth and Sun.
D) varying output of the Sun.
E) shape of the Earth.

Answer: A

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

113) The Greenwich Meridian is also known as the _____.
A) Equator
B) Prime Meridian
C) Aphelion
D) Small Circle
E) Perihelion

Answer: B

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

114) At times, latitudes higher than _____ degrees can have 24 hours or more of continuous darkness.
A) 66.5 B) 90 C) 10 D) 45 E) 23.5

Answer: A

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

115) The _____ is the name of the orbital plane on which the Earth revolves.
A) ecliptic
B) prime meridian
C) aphelion
D) perihelion
E) great circle

Answer: A

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

116) A _____ separates Earth into two hemispheres.

- A) small circle
- B) solstice
- C) perihelion
- D) great circle
- E) loxodrome

Answer: D

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

116) _____

117) Which of the following is not contained within Earth's system of latitude and longitude?

- A) a longitude of 5°W
- B) a latitude of 36° N
- C) a latitude of 0°
- D) a longitude of 165°W
- E) a longitude of 185°E

Answer: E

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

117) _____

118) The "natural" baselines which serves as a baselines to measure longitude (such as the Equator which is used as a baselines for latitude) _____.

- A) is the International Date Line
- B) is the Prime Meridian
- C) runs near London, England
- D) is at the same latitude as the Equator
- E) does not exist

Answer: E

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

118) _____

119) Of the following, which is a great circle?

- A) Antarctic Circle
- B) Arctic Circle
- C) Tropic of Capricorn
- D) Tropic of Cancer
- E) Equator

Answer: E

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

119) _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

120) The _____ points at the star Polaris. 120) _____

Answer: North Pole or Earth's axis

Explanation:

121) Earth's axis is tilted _____ degrees from a line perpendicular to the Plane of the Ecliptic. 121) _____

Answer: 23.5

Explanation:

122) The network of intersecting parallels and meridians over the entire Earth is known as the _____ . 122) _____

Answer: geographic grid or graticule

Explanation:

123) Science understands the solar system to be on the order of _____ billion years old. 123) _____

Answer: 4.5 to 5

Explanation:

124) If the axis of the Earth was not tilted, Earth would not experience _____. 124) _____

Answer: seasons

Explanation:

125) If you walked along a parallel, in what direction(s) would you be walking? 125) _____

Answer: east or west

Explanation:

126) _____ is a U.S. state which has not adopted Daylight Savings Time. 126) _____

Answer: Hawaii or Arizona (The 2005 Indiana Legislature adopted Daylight Savings Time)

Explanation:

127) In the Northern Hemisphere in July, day lengths are progressively _____ as one travels northward. 127) _____

Answer: longer

Explanation:

128) If you walked along a meridian, in what direction(s) would you be walking? 128) _____

Answer: north or south

Explanation:

129) He was first to correctly calculate the circumference of Earth: _____. 129) _____

Answer: Eratoshenes

Explanation:

130) The _____ is the environmental sphere that encompasses water in all its forms and locations. 130) _____

Answer: hydrosphere

Explanation:

131) The two major branches of geography are cultural geography and _____ geography. 131) _____

Answer: physical

Explanation:

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

132) At the equator, the Sun's rays at noon strike the Earth at the angle of 90° above the horizon twice each year. 132) _____

Answer: ☒ True ☐ False

Explanation:

133) The circle of illumination divides the Earth into a light and a dark hemisphere. 133) _____

Answer: ☒ True ☐ False

Explanation:

134) The Mariana Trench of the Pacific Ocean is the deepest depth of the ocean. 134) _____

Answer: ☒ True ☐ False

Explanation:

135) The atmosphere, biosphere, lithosphere, and hydrosphere are considered to be discrete and separated subsystems of the Earth. 135) _____

Answer: ☐ True ☒ False

Explanation:

136) The vertical distance between Earth's highest mountain and the deepest ocean trench is close to 20 kilometers. 136) _____

Answer: ☒ True ☐ False

Explanation:

137) The planets in our solar system formed from a cold, rotating disk of gas and dust surrounding the Sun. 137) _____

Answer: ☒ True ☐ False

Explanation:

138) The Coriolis effect deflects air and water currents. 138) _____

Answer: ☒ True ☐ False

Explanation:

139) The International Date Line and the 180th meridian are the same line. 139) _____

Answer: ☐ True ☒ False

Explanation:

140) The Earth has the shape of a true sphere. 140) _____

Answer: ☐ True ☒ False

Explanation:

141) At the North Pole, the speed of rotation of the Earth is 0 kilometers per hour. 141) _____

Answer: ☒ True ☐ False

Explanation:

- 142) The Equator is an example of a great circle in the geographic grid. 142) _____
Answer: ☒ True ☐ False
Explanation:
- 143) Earth revolves around the North Star. 143) _____
Answer: ☐ True ☒ False
Explanation:
- 144) On December 22, all areas inside the Antarctic Circle are in daylight for a full 24 hours. 144) _____
Answer: ☒ True ☐ False
Explanation:
- 145) The Sun makes up more than 99% of the mass of our solar system. 145) _____
Answer: ☒ True ☐ False
Explanation:
- 146) The Earth's circumference is close to 40,000 kilometers. 146) _____
Answer: ☒ True ☐ False
Explanation:
- 147) Russia occupies 3 time zones. 147) _____
Answer: ☐ True ☒ False
Explanation:
- 148) On the globe, meridians cross all parallels perpendicularly. 148) _____
Answer: ☒ True ☐ False
Explanation:
- 149) The fact that the Earth is round has been known from ancient times. 149) _____
Answer: ☒ True ☐ False
Explanation:
- 150) The apparent motion of the Sun, moon, and stars is actually an illusion created by the easterly spin of the Earth. 150) _____
Answer: ☒ True ☐ False
Explanation:
- 151) One rotation of the Earth takes approximately 24 hours to complete. 151) _____
Answer: ☒ True ☐ False
Explanation:
- 152) Almost all countries in the world base their time on UTC. 152) _____
Answer: ☒ True ☐ False
Explanation:
- 153) The plane of the ecliptic and plane of the Equator are the same plane. 153) _____
Answer: ☐ True ☒ False
Explanation:

- 154) Magellan's expedition--the first to go around the world--found that their log was incorrect by one day. This was because the world had yet to adopt the International Date Line. 154) _____
Answer: ☒ True ☐ False
Explanation:
- 155) Higher angles of incidence concentrate solar energy in smaller areas of Earth's surface. 155) _____
Answer: ☒ True ☐ False
Explanation:
- 156) The International Date Line is in the middle of a time zone. 156) _____
Answer: ☒ True ☐ False
Explanation:
- 157) Most of Earth's land surface is classified as "habitable". 157) _____
Answer: ☒ True ☐ False
Explanation:
- 158) The Prime Meridian was adopted as a result of an international conference in 1884. 158) _____
Answer: ☒ True ☐ False
Explanation:
- 159) In the Northern Hemisphere the longest day of the year is at the vernal equinox. 159) _____
Answer: ☐ True ☒ False
Explanation:
- 160) The International Date Line follows the Arctic and Antarctic Circle. 160) _____
Answer: ☐ True ☒ False
Explanation:
- 161) The shortest distance between the Earth and Sun during the year is approximately 147 million kilometers. 161) _____
Answer: ☒ True ☐ False
Explanation:
- 162) One rotation of the Earth takes a little longer than 24 hours. 162) _____
Answer: ☒ True ☐ False
Explanation:
- 163) There are 24 minutes for each degree of latitude. 163) _____
Answer: ☐ True ☒ False
Explanation:
- 164) When one crosses the prime meridian, the time zone does not change. 164) _____
Answer: ☒ True ☐ False
Explanation:
- 165) The best scientific guess is that there are a few hundred suns in our galaxy. 165) _____
Answer: ☐ True ☒ False
Explanation:

- 166) The plane of the Equator and the plane of the Ecliptic are the same plane. 166) _____
Answer: True ☒ False
Explanation:
- 167) The Earth year's length of 365.25 days is known as the perihelion. 167) _____
Answer: True ☒ False
Explanation:
- 168) The vertical rays of the Sun take one year to travel from the Tropic of Cancer to the Tropic of Capricorn and return to the Tropic of Cancer. 168) _____
Answer: ☒ True False
Explanation:
- 169) The North Star is also known as Polaris 169) _____
Answer: ☒ True False
Explanation:
- 170) The Sun and Moon are the astronomical bodies exerting the most gravitational influence on the Earth. 170) _____
Answer: ☒ True False
Explanation:
- 171) The vertical rays of the Sun migrate between 23.5° N and 23.5° S. 171) _____
Answer: ☒ True False
Explanation:
- 172) The lowest point of the sea bottom is approximately 11,000 meters below sea level. 172) _____
Answer: ☒ True False
Explanation:
- 173) Of seconds, degrees, and minutes of latitude, minutes are associated with the shortest distances. 173) _____
Answer: True ☒ False
Explanation:
- 174) In the Northern Hemisphere, days become continually shorter after March 22. 174) _____
Answer: True ☒ False
Explanation:
- 175) The Prime Meridian is, by design, shorter than other meridians. 175) _____
Answer: True ☒ False
Explanation:
- 176) All planets in our solar system rotate from east to west. 176) _____
Answer: True ☒ False
Explanation:
- 177) The northern hemisphere's shortest day of the year is at the autumnal equinox. 177) _____
Answer: True ☒ False
Explanation:

- 178) Our solar system is known as the Milky Way. 178) _____
Answer: True ☒ False
Explanation:
- 179) The circle of illumination is a small circle. 179) _____
Answer: True ☒ False
Explanation:
- 180) A great circle route is always the shortest distance between two points on the surface of the Earth. 180) _____
Answer: ☒ True ☐ False
Explanation:
- 181) The International Date Line is not strictly a line of longitude because it has been constructed to avoid land. 181) _____
Answer: ☒ True ☐ False
Explanation:
- 182) The northern hemisphere's vernal equinox occurs on September 23. 182) _____
Answer: True ☒ False
Explanation:
- 183) There is a parallel or meridian for every degree, minute and second on the globe. 183) _____
Answer: ☒ True ☐ False
Explanation:
- 184) At one time, several nations had their own separate prime meridians. 184) _____
Answer: ☒ True ☐ False
Explanation:
- 185) The Tropic of Cancer is an example of a great circle. 185) _____
Answer: True ☒ False
Explanation:
- 186) The vertical rays of the Sun are present at the Arctic Circle during the June solstice. 186) _____
Answer: True ☒ False
Explanation:
- 187) The "geosphere" is NOT one of the four environmental spheres. 187) _____
Answer: ☒ True ☐ False
Explanation:
- 188) The plane of the ecliptic is the same thing as the perihelion. 188) _____
Answer: True ☒ False
Explanation:
- 189) Earth years are based on the rotation of the moon around the Earth. 189) _____
Answer: True ☒ False
Explanation:

- 190) Previous to the 1880s, the United States had more than 20 time zones. 190) _____
Answer: ☒ True ☐ False
Explanation:
- 191) The adoption of Daylight Savings Time would be of little value for most nations in the Tropics. 191) _____
Answer: ☒ True ☐ False
Explanation:
- 192) Time zones are universally divided into zones of 24° longitude. 192) _____
Answer: ☐ True ☒ False
Explanation:

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 193) Draw and label a diagram showing Earth/Sun relationships which cause seasonality; explain the diagram.
Answer:
- 194) Write a paragraph explaining the physical basis of standard time zones.
Answer:
- 195) Write a paragraph explaining the relationship of geography to other scientific disciplines.
Answer:
- 196) Suppose you lived on the Falkland Islands at 52 degrees south latitude. Describe the basic changes in the angle of the Sun in the sky and the length of the day as time progresses from January to December.
Answer:

Answer Key
Testname: C1

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

Answer Key
Testname: C1

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

Answer Key

Testname: C1

- 101) A
- 102) B
- 103) D
- 104) C
- 105) D
- 106) B
- 107) C
- 108) B
- 109) E
- 110) A
- 111) C
- 112) A
- 113) B
- 114) A
- 115) A
- 116) D
- 117) E
- 118) E
- 119) E
- 120) North Pole or Earth's axis
- 121) 23.5
- 122) geographic grid or graticule
- 123) 4.5 to 5
- 124) seasons
- 125) east or west
- 126) Hawaii or Arizona (The 2005 Indiana Legislature adopted Daylight Savings Time)
- 127) longer
- 128) north or south
- 129) Eratoshenes
- 130) hydrosphere
- 131) physical
- 132) TRUE
- 133) TRUE
- 134) TRUE
- 135) FALSE
- 136) TRUE
- 137) TRUE
- 138) TRUE
- 139) FALSE
- 140) FALSE
- 141) TRUE
- 142) TRUE
- 143) FALSE
- 144) TRUE
- 145) TRUE
- 146) TRUE
- 147) FALSE
- 148) TRUE
- 149) TRUE
- 150) TRUE

Answer Key
Testname: C1

- 151) TRUE
- 152) TRUE
- 153) FALSE
- 154) TRUE
- 155) TRUE
- 156) TRUE
- 157) TRUE
- 158) TRUE
- 159) FALSE
- 160) FALSE
- 161) TRUE
- 162) TRUE
- 163) FALSE
- 164) TRUE
- 165) FALSE
- 166) FALSE
- 167) FALSE
- 168) TRUE
- 169) TRUE
- 170) TRUE
- 171) TRUE
- 172) TRUE
- 173) FALSE
- 174) FALSE
- 175) FALSE
- 176) FALSE
- 177) FALSE
- 178) FALSE
- 179) FALSE
- 180) TRUE
- 181) TRUE
- 182) FALSE
- 183) TRUE
- 184) TRUE
- 185) FALSE
- 186) FALSE
- 187) TRUE
- 188) FALSE
- 189) FALSE
- 190) TRUE
- 191) TRUE
- 192) FALSE
- 193)
- 194)
- 195)
- 196)