Test Bank for Living Physical Geography 1st Edition by Gervais IBSN 9781464106644

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Ι.	It ta	kes Earth	days to revolve around the Sun.
	A)	24	
	B)	202	
	C)	365.25	
	,	278	
		_, _	
2.			hours to complete one rotation on its axis.
	A)		
	,	202	
	,	365.25	
	D)	278	
3.	The	path that Earth and the	e other plants follow as they orbit the Sun is called the
		<u> </u>	•
	A)	subsolar point	
	B)	plane of ecliptic	
	C)	axial tilt	
	D)	circle of illumination	
4.	The	farthest position of Ea	rth's orbit around the Sun is called
	A)	aphelion	
		perihelion	
		plane of ecliptic	
	D)	= =	
5.	The	average distance betw	een Earth and the Sun is million kilometers.
	,	149.6	
	,	167	
	C)	180	
	D)	274.3	
6.	Eart	h's North Pole points to	0 .
٠.	A)	the subsolar point	- <u></u> -
	B)	the plane of the eclipt	ic
	C)	Polaris	
	Ď)	the Sun	

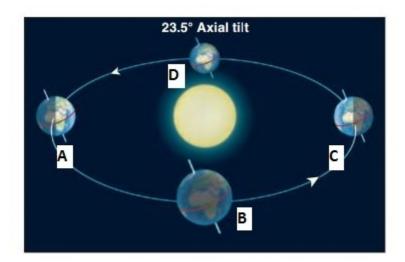
8. The is the division between night and day. A) circle of illumination B) solar declination C) perihelion D) solar altitude 9. The refers to the height of the Sun above the horizon at noon. A) circle of illumination B) solar declination C) perihelion D) solar altitude 10. Over a six-month period, the subsolar point migrates across degrees of latitude. A) 0 B) 23.5 C) 47 D) 90 11. If Earth's axial tilt were zero, the subsolar point would migrate across degrees of latitude each six months. A) 0 B) 23.5 C) 46 D) 90 12. If Earth's axial tilt were 90 degrees, the subsolar point would migrate across degrees of latitude each six months. C) 46 D) 90 13. If Earth's axial tilt were 90 degrees, the subsolar point would migrate across degrees of latitude each six months. C) 46 D) 90	7.	How fast would you have to travel to stay beneath the subsolar point as it moved alor the equator? A) 656 kilometers per hour B) 909 kilometers per hour C) 1,035 kilometers per hour D) 1,670 kilometers per hour
A) circle of illumination B) solar declination C) perihelion D) solar altitude 10. Over a six-month period, the subsolar point migrates across degrees of latitude. A) 0 B) 23.5 C) 47 D) 90 11. If Earth's axial tilt were zero, the subsolar point would migrate across degrees of latitude each six months. A) 0 B) 23.5 C) 46 D) 90 12. If Earth's axial tilt were 90 degrees, the subsolar point would migrate across degrees of latitude each six months. A) 0 B) 23.5 C) 46 D) 90 12. If Earth's axial tilt were 90 degrees, the subsolar point would migrate across degrees of latitude each six months. C) 46	8.	A) circle of illuminationB) solar declinationC) perihelion
latitude. A) 0 B) 23.5 C) 47 D) 90 11. If Earth's axial tilt were zero, the subsolar point would migrate across degrees of latitude each six months. A) 0 B) 23.5 C) 46 D) 90 12. If Earth's axial tilt were 90 degrees, the subsolar point would migrate across degrees of latitude each six months. A) 0 B) 23.5 C) 46	9.	A) circle of illuminationB) solar declinationC) perihelion
degrees of latitude each six months. A) 0 B) 23.5 C) 46 D) 90 12. If Earth's axial tilt were 90 degrees, the subsolar point would migrate across degrees of latitude each six months. A) 0 B) 23.5 C) 46	10.	latitude. A) 0 B) 23.5 C) 47
degrees of latitude each six months. A) 0 B) 23.5 C) 46	11.	degrees of latitude each six months. A) 0 B) 23.5 C) 46
	12.	degrees of latitude each six months. A) 0 B) 23.5 C) 46

13.	 Which statement is not true about the December solstice? A) The subsolar point is over 23.5 degrees south latitude. B) It is the longest day in the Southern Hemisphere. C) Daylight hours get longer as one travels northward. D) The subsolar point is over the Tropic of Capricorn.
14.	 Which statement is not true about the March equinox? A) All locations on Earth (except the poles) receive 12 hours of daylight and night B) It is the first day of spring in the Northern Hemisphere. C) It is the first day of fall in the Southern Hemisphere. D) The subsolar point is over the Tropic of Capricorn.
15.	 Which statement is not true about the June solstice? A) The subsolar point is over the Tropic of Cancer. B) It is the shortest day of the year in the Northern Hemisphere. C) Daylight hours get shorter as one travels southward. D) It is the first day of winter in the Northern Hemisphere.
16.	 Which statement is not true about the September equinox? A) All locations on Earth (except the poles) receive 12 hours of daylight and night B) Winter has ended in the Southern Hemisphere. C) It is the first day of spring in the Northern Hemisphere. D) The solar declination is 0 degrees latitude.
17.	On June 21, the latitude 41 degrees north receives hours of daylight. A) 0 B) 9 C) 12 D) 15
18.	On the March equinox, the latitude 41 degrees north receives hours of daylight. A) 0 B) 9 C) 12 D) 15

19.	On I	December 21, the latitude 80 degrees north receives	hours of daylight.
	A)	0	
	B)	9	
	C)	12	
	D)	15	
20.		Arctic Circle is located at latitude.	
		66.5 degrees north	
		23.5 degrees north	
		23.5 degrees south	
	D)	66.5 degrees south	
21.	The	Tropic of Capricorn is located at latitude.	
	A)	66.5 degrees north	
	B)	23.5 degrees north	
		23.5 degrees south	
	D)	66.5 degrees south	
22.	The	Antarctic Circle is located at latitude.	
		66.5 degrees north	
		23.5 degrees north	
		23.5 degrees south	
	D)	66.5 degrees south	
23	The	Tropic of Cancer is located at latitude.	
2 3.		66.5 degrees north	
	,	23.5 degrees north	
		23.5 degrees south	
		66.5 degrees south	
24	On f	the all locations within the Arctic Circle receive 24	hours of davlight
	A)	June solstice	or sujugue.
	B)	September equinox	
	,	December solstice	
		March equinox	

- 25. On the _____ all locations within the Antarctic Circle receive 24 hours of daylight.
 - A) June solstice
 - B) September equinox
 - C) December solstice
 - D) March equinox

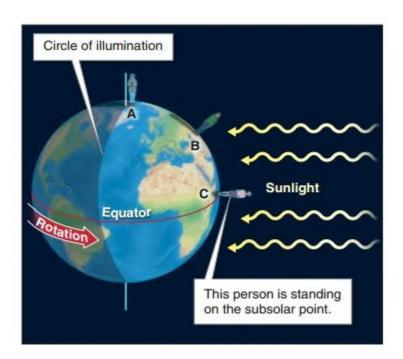
Use the following to answer questions 26-29:



- 26. Looking at the figure, what seasonal marker occurs at position A?
 - A) June solstice
 - B) December solstice
 - C) March equinox
 - D) September equinox
- 27. Looking at the figure, what seasonal marker occurs at position B?
 - A) June solstice
 - B) December solstice
 - C) March equinox
 - D) September equinox
- 28. Looking at the figure, what seasonal marker occurs at position C?
 - A) June solstice
 - B) December solstice
 - C) March equinox
 - D) September equinox

- 29. Looking at the figure, what seasonal marker occurs at position D?
 - A) June solstice
 - B) December solstice
 - C) March equinox
 - D) September equinox

Use the following to answer question 30:



- 30. Which date is shown in this figure?
 - A) June 21
 - B) December 21
 - C) March 20
 - D) August 21
- 31. The heat-index temperature is caused by _____.
 - A) humidity
 - B) ocean currents
 - C) convection in the atmosphere
 - D) sun angle

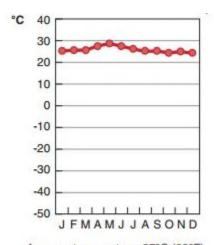
32.	Ninety-five degrees Fahrenheit is equal toA) 20 B) 25 C) 30 D) 35	degrees Celsius.
33.	Zero degrees Celsius is equal to degr A) 0 B) 12 C) 32 D) 212	rees Fahrenheit.
34.	One degree of change in Celsius is equal to	degrees of change in
35.	Water boils at degrees Fahrenheit. A) 0 B) 32 C) 100 D) 212	
	Water boils at degrees Celsius. A) 0 B) 32 C) 100 D) 212	
37.	Water freezes at degrees Fahrenheit. A) 0 B) 32 C) 100 D) 212	

38.	Water freezes at degrees Celsius. A) 0
	B) 32
	C) 100
	D) 212
39.	Circulation of heat in the oceans and atmosphere is an example of energy movement
	through
	A) conduction
	B) convection
	C) radiationD) seasonality
	2) seasonancy
40.	Absorption of sunlight by Earth's surface is an example of
	A) conduction
	B) convectionC) radiation
	D) seasonality
41.	Heat traveling through an iron rod stuck in a fire is an example of
	A) conduction
	B) convectionC) radiation
	D) seasonality
42.	The highest temperature officially recorded on Earth was where?
	A) in Libya
	B) in Death Valley, CaliforniaC) near Phoenix, Arizona
	D) in the Atacama Desert in Chile
43.	The lowest temperature ever officially recorded was in
	A) Alaska
	B) SiberiaC) Antarctica
	D) Montana
	_ ,

44.	On a climate diagram, the horizontal axis is always A) temperature B) precipitation C) months of the year D) humidity
45.	The temperature of 1 gram of water will rise degree(s) Celsius when 1 calorie is added to it. A) 1 B) 2 C) 3 D) 5
46.	The temperature of 1 gram of dry sand will rise about degree(s) Celsius when 1 calorie is added to it. A) 1 B) 2 C) 3 D) 5
47.	At a given location the sea level air temperature is 30 degrees Celsius. Based on the average environmental lapse rate, what is the most likely temperature at 5,000 meters in mountains near that same sea level location? A) 20 degrees Celsius B) 10.5 degrees Celsius C) 0.5 degrees Celsius D) -2.5 degrees Celsius
48.	 Which location has the lowest average annual temperature? A) near the equator and at a low elevation B) near the equator and at a high elevation C) at a high latitude and at a low elevation D) at a high latitude and high elevation
49.	 Which location has the highest annual temperature range? A) near the equator and near the ocean B) near the equator and far inland C) at a high latitude and near the ocean D) at a high latitude and far inland

- 50. The continental effect ______ the annual temperature range.
 - A) increases
 - B) decreases
 - C) has no effect on
 - D) is unrelated to
- 51. Which does not cause the continental effect?
 - A) the specific heat of water
 - B) condensation of water
 - C) mixing of water
 - D) transparency of water
- 52. The Southern Hemisphere has ______ average annual temperature range compared to the Northern Hemisphere.
 - A) a higher
 - B) a lower
 - C) the same
 - D) a cooler
- 53. Which location has the highest annual temperature range?
 - A) northern North America
 - B) north and central Eurasia
 - C) northeastern Eurasia
 - D) Australia

Use the following to answer question 54:

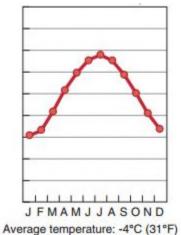


Average temperature: 27°C (82°F)

54. Which location does this climate diagram best match?

- A) high latitude and coastal
- B) high latitude and high elevation
- C) low latitude and coastal
- D) low latitude and high elevation

Use the following to answer question 55:



55. Which location does this climate diagram best match?

- A) high latitude and coastal
- B) high latitude and inland
- C) low latitude and coastal
- D) low latitude and inland

56. Hotter objects emit _____ than relatively cooler objects.

- A) longer wavelengths
- B) shorter wavelengths
- C) shorter wavelengths at a faster rate
- D) longer wavelengths at a faster rate

57. Terrestrial radiation peaks at _____ micrometers.

- A) 10
- B) 17
- C) 20
- D) 33

58.	Sola A) B) C) D)	0.5 1	micrometers.
59.	A) B) C)	ch color has the longest photon v red orange yellow green	vavelength?
60.	A) B) C)	ch wavelength causes sunburns? red orange ultraviolet infrared	
61.	A) B) C)	ch describes insolation traveling transmission scattering reflection absorption	through Earth's atmosphere?
62.	A) B) C)	ch will most likely happen to ins transmission scattering reflection absorption	olation if it strikes snow?
63.	Whi A) B) C) D)	ch will most likely happen to ins transmission scattering reflection absorption	olation if it strikes vegetation?

64.	The	sky is blue because of
	A)	Rayleigh scattering
	B)	the color of the oceans
	C)	absorption of blue photons of light
		the color of molecules in the atmosphere
65.	Gras	ss is green because it
		emits green photons
	,	absorbs green, and reflects all other colors
		absorbs all colors, but green is reflected
		transmits green
	,	S
66	Clo	ads are white because they
00.		emit white photons
		absorb all colors equally
		reflect all colors equally
		absorb all colors, but reflect white
	D)	absorb all colors, but reflect white
67	Pair	abows are caused by
07.		reflected sunlight
		absorbed sunlight
		refracted sunlight
		transmitted sunlight
	D)	transmitted sumigni
60	Who	ot hannons after an abject absorbs a photon of anaray?
00.		at happens after an object absorbs a photon of energy?
		The chiest changes states of metter
		The object changes states of matter.
		The temperature of the object increases. The object remains unaffected.
	D)	The object remains unaffected.
60	Whi	ch has the potentially highest albedo?
υ <i>)</i> .	A)	clouds
	B)	bare rock
	,	vegetation
	D)	asphalt

70.	will remain unchanged as long as A) incoming energy is greater than outgoing energy B) incoming energy is less than outgoing energy C) incoming energy is equal to outgoing energy D) there is no incoming or outgoing energy
71.	What would happen to Earth's radiative equilibrium temperature if Earth's albedo were lowered? A) It would decrease. B) It would increase. C) It would not change. D) It is unknown.
72.	The temperature of Earth's surface is approximately degrees Celsius. A) 12 B) 14.6 C) 17 D) 18.3
73.	Without Earth's atmosphere would not have a natural greenhouse effect. A) a global heat engine B) radiative equilibrium temperature C) insolation D) greenhouse gases
74.	The atmosphere is heated mostly by A) counter-radiation from clouds B) counter-radiation from gases in the atmosphere C) Earth's surface D) the oceans
75.	Overall, what percentage of solar radiation is reflected by Earth? A) 7 percent B) 23 percent C) 30 percent D) 70 percent

76.	What percentage of solar radiation is reflected by clouds and the atmosphere?			
	A) 7 percent			
	B) 23 percent C) 30 percent			
	D) 70 percent			
	b) 70 percent			
77	. Overall, what percentage of solar radiation is absorbed by Earth?			
, , .	A) 7 percent			
	B) 23 percent			
	C) 30 percent			
	D) 70 percent			
78.	. The surface of the land and oceans absorbs percent of solar radiat	ion.		
	A) 7 percentB) 23 percent			
	C) 47 percent			
	D) 56 percent			
79.	. Because of the greenhouse effect, which emits the most longwave radiation?			
	A) the land surface			
	B) clouds			
	C) greenhouse gases			
	D) the oceans			
80	. At which latitude does the amount of absorbed solar radiation equal the amour	nt of		
00.	energy emitted by Earth?	. 01		
	A) 23.5 degrees			
	B) 37 degrees			
	C) 45 degrees			
	D) 50 degrees			
Q 1	. At high latitudes, Earth radiates energy than it absorbs.			
01.	A) less			
	B) more			
	C) the same amount			
	D) Earth does not radiate energy.			

82.	The	is the result of heating inequalities across latitudes.
	A)	natural greenhouse effect
		urban heat island
	,	global heat engine
		electromagnetic spectrum
	D)	creetromagnetic spectrum
83.		e Sun stopped shinning, the global heat engine would
	,	
	,	be enhanced
		remain unchanged
	D)	Solar energy does not relate to the global heat engine.
84.		at percentage of the energy the world uses comes from fossil fuels? 50 percent
	B)	65 percent
		70 percent
		85 percent
85	By t	he middle of the century, about how much energy could come from fossil fuels?
05.	•	20 percent
		40 percent
		60 percent
	,	80 percent
	D)	60 percent
86.	Whi	ch is not among the problems with fossil fuels?
	A)	They are finite.
	B)	They produce pollution.
	C)	They are available in large amounts.
	D)	They are politically volatile.
87.	Whi	ch is not an example of a renewable energy?
٥,,	A)	coal
	B)	sunlight
		geothermal heat
		wind

88.	About 101,000 terawatts of energy are delivered to Earth each day by the Sun. Worldwide, society consumes about terawatts of energy. A) 15 B) 25 C) 40 D) 76
89.	Which has the most potential as a renewable energy source in terms of the theoretical maximum energy production? A) biomass B) geothermal C) wind D) hydroelectric
90.	Meteorological seasons refer to the changing of weather conditions over the course of a year. A) True B) False
91.	Astronomical seasons refer to the changing position of the Sun, Moon, and stars. A) True B) False
92.	Earth's axis is tilted 25 degrees. A) True B) False
93.	If Earth's axial tilt were to increase, seasonality would decrease. A) True B) False
94.	Earth is closer to the Sun in January than in July. A) True B) False
95.	The Tropic of Capricorn occurs at 23.5 degrees north latitude. A) True B) False

96.	Sunlight becomes less diffuse at high latitudes. A) True B) False
97.	Only in the tropics can the solar altitude be 90 degrees. A) True B) False
98.	The subsolar point moves as high as 38 degrees latitude north and south. A) True B) False
99.	Temperature is the average kinetic movement of molecules in a substance, measured by a thermometer. A) True B) False
100.	The heat-index temperature is determined by measuring atmospheric humidity and temperature. A) True B) False
101.	The Kelvin scale has no negative numbers. A) True B) False
102.	When two objects of different temperatures come into contact, heat will flow from the object with a lower temperature to the object with a higher temperature. A) True B) False
103.	The greater the temperature contrast between two objects in contact, the faster heat will flow from one to the other. A) True B) False

104.	Copper is a good insulator. Air is a good conductor. A) True B) False
105.	The difference between the highest and lowest air temperatures for a given location is called the temperature range. A) True B) False
106.	Lines of equal temperature are called <i>isotherms</i> . A) True B) False
107.	Water has a lower specific heat than dry sand. A) True B) False
108.	The Gulf Stream current reduces the annual temperature range for Northern Europe. A) True B) False
109.	All locations in the tropics are warm. A) True B) False
110.	New York City, located on the coast, has a strongly maritime climate. A) True B) False
111.	All objects emit electromagnetic radiation. A) True B) False
112.	Most of Earth's electromagnetic radiation is in short wavelengths. A) True B) False

113.	Most solar electromagnetic radiation is in long wavelengths. A) True B) False
114.	Ultraviolet radiation has shorter wavelengths than visible light. A) True B) False
115.	Transmission is the absorption of electromagnetic energy by an object. A) True B) False
116.	Alpenglow forms as light is scattered in the atmosphere. A) True B) False
117.	The term <i>insolation</i> is short for "incoming solar radiation." A) True B) False
118.	Radiometers are used to measure the amount of reflected shortwave radiation at Earth's surface. A) True B) False
119.	Snow has a lower albedo than vegetation. A) True B) False
120.	Earth's albedo is highest in tropical regions. A) True B) False
121.	The lower albedo of cities and the materials of which they are made create the urban heat island effect. A) True B) False

122. Renewable energy does not put ancient carbon in the atmosphere.A) TrueB) False
123. Photovoltaic (PV) panels generate electricity from sunlight.A) TrueB) False
124. Solar panels on rooftops are an example of centralized solar energy production.A) TrueB) False
125. One of the world's most intense sunlight regions is equatorial Africa.A) TrueB) False
126. In the United States, the most intense sunlight occurs in Florida.A) TrueB) False
127. Concentrated solar power (CSP) generates electricity by creating steam from water heated by sunlight.A) TrueB) False
128. Desert organisms such as the California desert tortoise are not harmed by solar power farms.A) TrueB) False
129. What presiding body compiles daily global temperature recordings? About how many stations are used to monitor Earth's atmospheric temperature?
130. Why is deep and clear water colored blue?

- 131. Do rainbows only occur where it is raining? Explain.
- 132. Is there an urban heat island where you live? What information would you need to acquire to answer this question?
- 133. Explain what the global heat engine is and how it is fundamentally important to atmospheric systems.
- 134. What are biomass, geothermal, and hydroelectric energy sources? How does each generate electricity? What does it mean to say that they are renewable?
- 135. Give examples of centralized and decentralized solar energy production. Discuss the strengths and weaknesses of both.

Answer Key

- 1. C
- 2. A
- 3. B
- 4. A
- 5. A
- 6. C
- 7. D
- 8. A
- 9. D
- 10. C
- 11. A
- 12. D
- 13. C
- 14. D
- 15. B
- 16. C
- 17. D
- 18. C
- 19. A
- 20. A
- 21. C
- 22. D
- 23. B
- 24. A
- 25. C
- 26. B
- 27. C
- 28. A
- 29. D
- 30. C
- 31. A
- 32. D
- 33. C
- 34. A
- 35. D
- 36. C
- 37. B38. A
- 39. B
- 40. C
- 41. A
- 42. B
- 43. C
- 44. C

- 45. A
- 46. D
- 47. D
- 48. D
- 49. D
- 50. A
- 51. B
- 52. B
- 53. B
- 54. C
- 55. B
- 56. C
- 57. A
- 58. B
- 59. A
- 60. C
- 61. A
- 62. C
- 63. D
- 64. A
- 65. C
- 66. C
- 67. C
- 68. C
- 69. A
- 70. C
- 71. B
- 72. B
- 73. D
- 74. C
- 75. C
- 76. B
- 77. D 78. C
- 79. C
- 80. B
- 81. B
- 82. C
- 83. A 84. D
- 85. D
- 86. C
- 87. A
- 88. A
- 89. C
- 90. A

- 91. A
- 92. B
- 93. B
- 94. A
- 95. B
- 96. B
- 97. A
- 98. B
- 99. A
- 100. A
- 101. A 102. B
- 103. A
- 104. B
- 105. A
- 106. A
- 107. B
- 108. A
- 109. B
- 110. B
- 111. A
- 112. B
- 113. B
- 114. A
- 115. B
- 116. A
- 117. A
- 118. A
- 119. B
- 120. B 121. A
- 122. A
- 123. A 124. B
- 125. B
- 126. B
- 127. A
- 128. B
- 129. Global Historical Climatology Network. There are about 75,000 stations in use worldwide.
- 130. The color of the oceans is not related to the color of the sky. Instead, like a filter, ocean water absorbs longer wavelengths of reds and yellows before shorter wavelengths of blue, leaving blue wavelengths to perceive.
- 131. Rainfall isn't required for rainbows to form. Rainbows form wherever there is sunlight, drops of water in the sky, and an observer to see the effect. Sprinklers, waterfalls, and whale spouts all can create rainbows.

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- 132. Only students living in large cities may have an urban heat island. Average temperature data would have to be used to compare the averages between the city interior and nearby surrounding rural areas.
- 133. The global heat engine is the convective movement of heat energy out of the tropics to middle and high latitudes. The oceans moves about 40 percent of the energy, and the atmosphere moves about 60 percent. This heat movement gives rise to wind and storm systems.
- 134. Biomass generates power by burning organic material, such as agricultural wastes or plant oils. Geothermal generates power from Earth's internal heat. Hydroelectric refers to the generation of electricity from rivers by means of turbines on dams. Each is renewable because the source of energy never runs out.
- 135. Decentralized solar energy production includes putting solar panels on rooftops, in parking lots, and on any other available surface in urban and rural settings. Two strengths of the decentralized approach are 1) homeowners can take part in producing carbon-free energy, and 2) this approach does not require large tracts of land that could be habitats for organisms. One problem with decentralized solar energy production is that in many cases it is not yet cost-effective. The centralized solar energy approach creates a single area with intensive energy production, either through an expanse of solar panels or the concentrated solar power technique. Generally, energy produced through a centralized approach must be transported long distances because large spaces are not typically available near large population centers where energy is in demand. Transporting electricity long distances can be inefficient and wasteful.