## Test Bank for Ecology Canadian 4th Edition by Molles IBSN 1259362191

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

- 1) A biome is characterized primarily by
  - A) flora and fauna.
  - B) soil structure and flora.
  - C) temperature and moisture.
  - D) climate and predominant plant types.
  - E) global weather patterns.

Answer: D

- 2) All of the following factors lead to climatic variation on earth except:
  - A) spherical shape of the earth
  - B) earth's axial rotation as it orbits the sun
  - C) coriolis effect
  - D) atmospheric circulation
  - E) uneven heating of the earth's surface

Answer: C

- 3) All of the following statements concerning wind are true **except**:
  - A) westerlies blow toward the south pole in the southern hemisphere
  - B) northeast trade winds blow toward the poles
  - C) southeast trade winds blow toward the equator
  - D) polar easterlies blow toward the equator
  - E) westerlies blow toward the north pole in the northern hemisphere

Answer: B

- 4) Warm tropical air
  - A) cools as it ascends
  - B) is dense and sinks
  - C) has a low evaporative potential
  - D) meets cool polar air causing precipitation in the tropics
  - E) warms as it ascends

Answer: A

- 5) Deserts are formed because
  - A) cool, dry air absorbs moisture from the land below as it falls, creating deserts at approximately 30° north and south latitudes
  - B) warm air at the equator takes moisture with it as it rises, leaving equatorial deserts
  - C) cool air rises from the deserts, taking moisture with it
  - D) global warming causes the moisture in the ground to evaporate faster, leaving behind dry desert soils
  - E) the Coriolis effect causes the moisture to be carried sideways towards the earth's oceans, leaving behind dry land masses

Answer: A

- 6) Rainfall in tropical rain forests is a result of:
  - A) The Coriolis effect carrying moisture from the warm tropical oceans above the land mass where it falls as rain
  - B) Ferrel cells carrying moisture from the temperate forests towards the equator, where it condenses and falls as rain
  - C) Transpiration from the trees of the rainforest creating rain clouds above the forests
  - D) The cooling of the warm tropical air as it rises above the equator, causing moisture to condense out and form rain clouds
  - E) Cold air from Polar cells meeting with warm air from Hadley cells, causing the Hadley cells to release their moisture

Answer: D

- 7) All of the following statements are true **except**:
  - A) C horizon: weathered parent material
  - B) LFH horizon: mineral material
  - C) B horizon: deposition of clay and humus
  - D) A horizon: mixture of organic and mineral materials
  - E) O horizon: organic layer

Answer: B

8) There are(is) \_\_\_\_\_ circulation air cell(s) per hemisphere, \_\_\_\_ total for the earth. A) 4; 8 B) 1; 2 C) 5; 10 D) 2; 4 E) 3; 6

Answer: E

- 9) Climate diagrams provide all of the following information **except**:
  - A) temperature and precipitation variations
  - B) wind patterns
  - C) water availability for terrestrial plants
  - D) wet and dry season durations
  - E) average minimum temperature above and below 0°C

Answer: B

- 10) Most of the earth's deserts are
  - A) located at 30° north and south latitudes
  - B) located at 60° north and south latitudes
  - C) located at 0° latitude
  - D) located at 90° north and south latitudes
  - E) randomly scattered around the earth's surface

Answer: A

A) parent material	L			
B) age				
C) climate				
D) organisms				
E) wind patterns				
Answer: E				
12) All of the following	statements are true	<b>except</b> that:		
A) Tundra is cold	and wet.			
B) Temperate gras	sslands receive a mo	derate amount of pre	cipitation during the	growing season,
	perience lengthy dro	-		
	poration exceeds pro	•		
		atures with occasiona	al droughts.	
E) Tropical rain fo	orests are continuous	sly warm and wet.		
Answer: A				
C) Coriolis effect D) uneven heating	nce of flora lity of cool and warr	m air masses to hold be and atmosphere by	water vapour	owing, <u>except</u> :
14) The is a constant handing	•	that contains clays, h	numus, and other mat	erials which may
form distinct bandir	B) O horizon	C) B horizon	D) A horizon	E) D horizon
Answer: C	b) O nonzon	C) B Horizon	D) A HOHZOH	L) D HOHZOH
<ul><li>B) Characterized</li><li>C) Rigidly defined characteristics</li><li>D) Found in well</li></ul>	ned areas of land that by the microfauna for d areas of land that a and plant species defined, clearly outli	ound in the A horizon	same combination o	

11) All of the following factors influence soil structure **except**:

<ul> <li>16) Which of the following biomes have fertile soils that contain large quantities of organic matter? <ul> <li>A) tropical rain forest</li> <li>B) tropical savanna</li> <li>C) Mediterranean woodland and shrubland</li> <li>D) tundra</li> <li>E) temperate forest</li> </ul> </li> <li>Answer: E</li> </ul>
<ul> <li>17) Which of the following is not a characteristic of the boreal forest?</li> <li>A) home to moose and migratory caribou</li> <li>B) sparse plant cover</li> <li>C) low fertility, thin, acidic soil</li> <li>D) thick layer of plant litter that ties up nutrients</li> <li>E) dominated by evergreen conifers such as spruce and fir</li> <li>Answer: B</li> </ul>
<ul> <li>18) Which of the following is <u>not</u> true for the Ecozones of Canada?</li> <li>A) like biomes, they are mainly based on climate and major vegetation</li> <li>B) they are relevant to the terrestrial and marine environments</li> <li>C) they are less specific than ecoregions</li> <li>D) they are more specific than biomes</li> <li>E) new maps need to be drawn every few years because their boundaries are rapidly changing Answer: E</li> </ul>
19) The sun is directly above the equator during the  A) spring equinox B) spring and autumnal equinox C) autumnal equinox D) summer solstice E) winter solstice Answer: B
<ul> <li>20) Hadley, Ferrel, and Polar cells are:</li> <li>A) Cells of warm air that move north from the equator</li> <li>B) Cells of cool air that move down from the polar regions</li> <li>C) Caused by the Coriolis effect</li> <li>D) Caused by the tilt of the earth on its axis</li> <li>E) Atmospheric cells (thermal air loops) on either side of the equator</li> <li>Answer: E</li> </ul>

- 21) Atmospheric cells, in order from the equator to the poles are called:
  - A) Hadley, Polar, and Ferrel cells
  - B) Ferrel, Hadley, and Polar cells
  - C) Polar, Hadley, and Ferrel cells
  - D) Polar, Ferrel, and Hadley cells
  - E) Hadley, Ferrel, and Polar cells

Answer: E

- 22) Coriolis effect causes winds in the
  - A) Temperate latitudes to be predominantly westerlies
  - B) Southern Hemisphere to deflect to the right
  - C) Northern Hemisphere to deflect to the left
  - D) High latitudes to be predominantly westerlies
  - E) Tropical latitudes to be predominantly easterlies

Answer: A

- 23) A climate diagram shows temperature and precipitation. The points at which the precipitation line lies above the temperature line indicates:
  - A) Areas with predominantly warm wet climates.
  - B) The periods of time when there is adequate moisture for plant growth.
  - C) The number of growing degree days.
  - D) Areas with predominantly cool wet climates.
  - E) The periods of time when the temperature is suitable for plant growth.

Answer: B

- 24) Soils have been referred to as "the poor man's tropical rainforest" because:
  - A) They are most diverse in the tropical rain forest
  - B) They contain many endangered species of microfauna
  - C) They are moist, warm environments
  - D) They have very high amounts of undescribed biodiversity and are inexpensive to study
  - E) They have very high amounts of well-described biodiversity and are inexpensive to study

Answer: D

- 25) Which soil horizon is most influenced by parent material?
  - A) O
  - B) **B**
  - C) A
  - D) C
  - E) All are equally influenced

Answer: D

- 26) In which of the following two biomes would ecologists find similar precipitation but different temperatures?
  - A) boreal forests and tundra
  - B) tundra and desert
  - C) boreal forests and tropical rain forests
  - D) temperate grassland and tundra
  - E) temperate forest and tropical rain forests

Answer: B

- 27) Climate plays an important role in shaping the structure of soils via all of the following mechanisms, **except**:
  - A) development and maintenance of air spaces
  - B) weathering of parent material
  - C) leaching of organic and inorganic material
  - D) erosion
  - E) decomposition of organic matter

Answer: A

- 28) Survival on land is a challenge for many terrestrial organisms. Which of the following is **not** a means by which terrestrial organisms are able to cope?
  - A) high body fat content
  - B) woody tissues
  - C) endoskeleton
  - D) sweating and panting
  - E) physiological mechanisms to lower the freezing point of water

Answer: A

- 29) Which biome is characterized by short shrubby plants and permafrost?
  - A) Tundra
  - B) Desert
  - C) Boreal Forest
  - D) Temperate Forest
  - E) Temperate Grassland

Answer: A

- 30) A climate diagram with the precipitation line below the temperature line from January to May and November to December indicates that:
  - A) the dry season is from May to November
  - B) evaporation exceeds precipitation from May to November
  - C) there is enough water for plant growth throughout the year
  - D) there is not enough water for plant growth between May and November
  - E) the wet season is from May to November

Answer: E

- 31) A climate diagram for a city in the northern hemisphere shows a gold-shaded area from January through December, and all months of the year are shaded red. This city is most likely in which biome?
  - A) Tundra
  - B) Desert
  - C) Temperate Grassland
  - D) Boreal Forest
  - E) Tropical Rain forest

Answer: B

- 32) Soils in temperate deciduous forests are typically high nutrient because of:
  - A) low temperatures, low rainfall, and low biological activity
  - B) high temperatures, high rainfall, and high biological activity
  - C) low organic matter, high decomposition, and high biological activity
  - D) high organic matter, moderate decomposition, and moderate biological activity
  - E) low organic matter, low decomposition, and low biological activity

Answer: D

- 33) Boreal forests are found only in the northern hemisphere because
  - A) There are no large enough land masses between  $50^{\circ}$  and  $65^{\circ}$  S latitude to accommodate vast expanses of boreal forest.
  - B) the atmospheric cells that create the climatic conditions for boreal forests occur only in the northern hemisphere.
  - C) The climate in the southern hemisphere is too inconsistent for boreal forests to grow.
  - D) Because of the earth's tilt, the southern hemisphere does not get enough sunlight for coniferous trees to grow.
  - E) The seeds of the coniferous trees have not spread to the southern hemisphere so boreal forests are unable to develop.

Answer: A

- 34) Temperate forests once covered much more of the earth than they do now. What is the major reason for this decrease in temperate forest area?
  - A) Human activities such as urban development and agriculture have caused the destruction of much of the temperate forest.
  - B) The melting of the polar ice caps has caused water levels to rise such that much of what was once temperate forest is now under water.
  - C) The tilt of the earth on its axis has changed in the past century, which changes the amount of sun exposure between 45° and 55° latitude.
  - D) Global warming has changed the climate such that the deciduous trees characteristic of this biome can no longer survive.
  - E) Many of the animal species that contributed to the biology of the temperate forest have gone extinct.

Answer: A

	A major threat to the far north tundra biome is  A) Deforestation to support the building of houses  B) Extraction of fossil fuels and minerals  C) Use of land for agriculture  D) Water diversion for human consumption  E) Urban development  Answer: B
TRUE/FAL	SE. Write 'T' if the statement is true and 'F' if the statement is false.
C	Urban and agricultural ecosystems can have detrimental effects not only in their local area, but also on parts of the biome much farther away.  Answer: True False
	Human agricultural activity frequently leads to a loss of biodiversity.  Answer: True False
	Human activities can alter local climates and change aspects of a biome.  Answer: True False
	Mycorrhizae are parasitic fungi that are depleting tropical trees of nutrients.  Answer: True • False
	Jrban and agricultural ecosystems are considered human-dominated biomes.  Answer: True ☑ False
	As altitude increases temperatures decrease, likewise as latitude decreases temperatures decrease.  Answer: True False
e	The O horizon is found mainly in terrestrial environments, whereas the equivalent layer in aquatic environments is called the LFH horizon.  Answer: True False
43) 7	Frade winds move toward the equator.
A	Answer: True False
	in general, warm air can hold more moisture than cool air and therefore has a stronger evaporative effect.
A	Answer: O True False
	The prevailing winds on Earth do not blow in a straight north-south direction because of the Ferrel effect.
A	Answer: True 🖸 False

46) The prevailing winds in temperate regions are the westerlies, while those in the polar regions are the easterlies and those near the equator are called northeast or southeast trade winds.  Answer: True			
47) On a climate diagram, red shading on all of the months across the bottom indicates that there is insufficient moisture for plant growth all year long.  Answer: True	east	erlies and those	e near the equator are called northeast or southeast trade winds.
insufficient moisture for plant growth all year long.  Answer: True False  48) A climate diagram that shows little fluctuation in average monthly temperature would most likely indicate that a locality is found near the arctic circle.  Answer: True False  49) Two terrestrial locations have similar soil structure and similar climate diagrams. The plant species are similar, but not identical and there are different animal species. Although there is some variation in the species found, the locations could still belong to the same biome.  Answer: True False  50) Temperate grasslands have a deep LFH layer that is rich in organic matter and makes the soil fertile Answer: True False  51) The precipitation in moist temperate regions is caused by the meeting of cool polar air and warm subtropical air.  Answer: True False  52) In the region between the tropics of Cancer and Capricorm, seasonal variations in temperature and day length at low elevation are slight.  Answer: True False  53) The boreal forest is the largest biome in terms of area in the southern hemisphere.  Answer: True False  54) Old-growth boreal forests contain sequoias, the largest living organisms on earth.  Answer: True False  55) The largest biome in North America is the temperate grassland.  Answer: True False  56) Desert soils are often low in organic matter.  Answer: True False  57) Evaporation of water from some desert soils could lead to the formation of salt crystals.  Answer: True False  58) The term for the biome characterized by a landscape of mosses, lichens, and dwarf willows, dotted with small ponds and laced with clear streams is the boreal forest.	Ansv	wer: True	• False
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## Answer Key

Testname: UNTITLED2

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

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Answer Key

Testname: UNTITLED2

- 51) TRUE
- 52) TRUE
- 53) FALSE
- 54) FALSE
- 55) TRUE
- 56) TRUE
- 57) TRUE
- 58) FALSE