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Chapter 02 - Life on Land

Chapter 02 Life on Land

Multiple Choice Questions

- 1. A biome is characterized primarily by
- A. flora and fauna.
- B. temperature and moisture.
- **<u>C.</u>** climate and predominate plant types.
- D. global weather patterns.
- E. None of the choices are correct.

Bloom's Level: 2. Understand Learning Outcome: 02.03.02 Describe the climatic differences among the biomes. Section: 02.03 Topic: Biomes and Ecosystems

- 2. Earth's climatic variation is due to
- A. the spherical shape of the earth.
- B. earth's axial rotation as it orbits the sun.
- C. uneven heating of the earth's surface.
- **D.** All of the choices are correct.
- E. None of the choices are correct.

Bloom's Level: 2. Understand Learning Outcome: 02.01.02 Define biome. Section: 02.01 Topic: Biomes and Ecosystems

3. Which of the following soil horizon profiles is ordered correctly?

- A. A, B, C, O
- <u>**B.**</u> O, A, B, C
- C. O, B, A, C
- D. C. B. O. A
- E. None of the choices are correct.

Bloom's Level: 2. Understand Learning Outcome: 02.02.01 Draw a soil profile, including typical soil horizons. Section: 02.02 Topic: Biomes and Ecosystems

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- 4. Coriolis effect causes winds in the
- A. Northern Hemisphere to deflect to the left.
- **<u>B.</u>** Northern Hemisphere to deflect to the right.
- C. Southern Hemisphere to deflect to the right.
- D. Northern and Southern Hemispheres to deflect to the left.
- E. Northern and Southern Hemispheres to deflect to the right.

Bloom's Level: 2. Understand Learning Outcome: 02.01.04 Explain the influence of the Coriolis effect on wind direction. Section: 02.01 Topic: Biomes and Ecosystems

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

Bloom's Level: 2. Understand Learning Outcome: 02.01.04 Explain the influence of the Coriolis effect on wind direction. Section: 02.01 Topic: Biomes and Ecosystems

6. Warm tropical air

- A. is dense and sinks.
- B. has a low evaporative potential.

C. cools as it ascends.

D. warms as it ascends.

E. meets cool polar air causing precipitation in the tropics.

Bloom's Level: 2. Understand Learning Outcome: 02.01.02 Define biome. Section: 02.01 Topic: Biomes and Ecosystems

7. All of the following statements are true **except**:

- A. A horizon: mixture of organic and mineral materials.
- B. B horizon: deposition of clay and humus.
- C. C horizon: weathered parent material.
- D. O horizon: organic layer.
- **<u>E.</u>** All of the choices are correct.

Bloom's Level: 2. Understand Learning Outcome: 02.02.02 Describe the characteristics of each of the typical soil horizons. Section: 02.02 Topic: Biomes and Ecosystems

- 8. Heating of the earth's surface causes
- A. cool air to rise and warm air to sink.
- **<u>B.</u>** warm air to rise and cool air to sink.
- \overline{C} . warm and cool air to condense.
- D. warm and cool air to mix.
- E. None of the choices are correct.

Bloom's Level: 2. Understand Learning Outcome: 02.01.02 Define biome. Section: 02.01 Topic: Biomes and Ecosystems

9. Which soil horizon is most influenced by climate?

A. A

B. **B**

C. C

<u>**D.**</u> O

 \overline{E} . All are equally influenced.

Bloom's Level: 1. Remember Learning Outcome: 02.02.03 Discuss how climate, organisms, topography, parent material, and time can influence soil development and structure. Section: 02.02 Topic: Biomes and Ecosystems 10. Which of the following terrestrial biomes are maintained by fires?

- A. tropical dry forests
- B. temperate forests and mountains
- C. Mediterranean woodlands and shrublands
- **D.** tropical savannas and temperate grasslands
- E. boreal forests and tundra

Bloom's Level: 2. Understand Learning Outcome: 02.03.02 Describe the climatic differences among the biomes. Section: 02.03 Topic: Biomes and Ecosystems

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

Bloom's Level: 4. Analyze Learning Outcome: 02.01.02 Define biome. Section: 02.01 Topic: Biomes and Ecosystems

12. Climatic diagrams provide all of the following information except:

<u>A.</u> wind patterns.

B. average minimum temperature above and below 0°C.

C. temperature and precipitation variations.

- D. wet and dry season durations.
- E. None of the choices are correct.

Bloom's Level: 5. Evaluate Learning Outcome: 02.01.03 Interpret a climate diagram. Section: 02.01 Topic: Biomes and Ecosystems

- 13. Most of the earth's deserts are
- A. located at 0°latitude.
- **<u>B.</u>** located at 30° north and south latitudes.
- C. located at 60° north and south latitudes.
- D. located at 90° north and south latitudes.
- E. randomly scattered around the earth's surface.

Bloom's Level: 2. Understand Learning Outcome: 02.03.02 Describe the climatic differences among the biomes. Section: 02.03 Topic: Biomes and Ecosystems

14. The Northern and Southern Hemispheres receive approximately equal amounts of solar radiation on the

- A. spring equinox.
- B. northern summer solstice.
- C. autumnal equinox.
- D. southern winter solstice.
- E. both spring equinox and autumnal equinox.

Bloom's Level: 2. Understand Learning Outcome: 02.01.01 Describe how natural history has helped with restoration of tropical dry forest in Costa Rica. Section: 02.01 Topic: Biomes and Ecosystems

15. Tropical dry forests are located between

- A. 0° and 10° north and south latitudes.
- B. 0° and 25° south latitude.
- C. 10° and 25° north and south latitudes.
- D. 10° and 25° south latitude.
- E. None of the choices are correct.

Bloom's Level: 2. Understand Learning Outcome: 02.03.02 Describe the climatic differences among the biomes. Section: 02.03 Topic: Biomes and Ecosystems

16. All of the following statements are true **except**:

- A. Tropical rain forests are continuously warm and wet.
- B. Tropical dry forests have rainy and dry seasons.
- C. In a desert, evaporation exceeds precipitation.
- **D.** Taigas have moderate temperatures with occasional droughts.
- E. Tundras are cold and dry.

Bloom's Level: 5. Evaluate Learning Outcome: 02.03.02 Describe the climatic differences among the biomes. Section: 02.03 Topic: Biomes and Ecosystems

17. All of the following components influence soil structure except:

- A. age.
- B. parent material.
- C. climate.
- D. organisms.
- **<u>E.</u>** None of the choices are correct.

Bloom's Level: 2. Understand Learning Outcome: 02.02.03 Discuss how climate, organisms, topography, parent material, and time can influence soil development and structure. Section: 02.02 Topic: Biomes and Ecosystems

18. Atmospheric circulation and precipitation patterns are influenced by which of the following?

- A. rising and sinking of warm and cool air masses
- B. uneven heating of the earth's surface and atmosphere by the sun
- C. differential ability of cool and warm air masses to hold water vapor
- D. Coriolis effect
- **<u>E.</u>** All of the choices are correct.

Bloom's Level: 2. Understand Learning Outcome: 02.01.02 Define biome. Section: 02.01 Topic: Biomes and Ecosystems 19. The ______ is a depositional horizon that contains clays, humus, and other materials which may form distinct banding patterns.

A. A horizon

B. B horizon

 \overline{C} . C horizon

D. D horizon

E. O horizon

Bloom's Level: 2. Understand Learning Outcome: 02.02.02 Describe the characteristics of each of the typical soil horizons. Section: 02.02 Topic: Biomes and Ecosystems

20. Which of the following is true for the Palmer Drought Severity Index?

A. It uses temperature and precipitation to calculate moisture conditions relative to long-term averages.

B. Negative values reflect drought conditions.

C. Values near zero reflect average rainfall conditions.

D. It demonstrates both temporal and spatial climatic variation.

<u>E.</u> All of the choices are correct.

Bloom's Level: 5. Evaluate Learning Outcome: 02.Applications.02 Describe the Palmer Drought Severity Index. Section: Applications Topic: Biomes and Ecosystems

21. Which of the following is not a characteristic of the boreal forest?

A. dominated by evergreen conifers such as spruce and fir

B. home to moose and migratory caribou

<u>C.</u> sparse plant cover

D. thick layer of plant litter that ties up nutrients

E. low fertility, thin, acidic soil

Bloom's Level: 2. Understand Learning Outcome: 02.03.04 Describe the types of vegetation, animals, and other organisms characteristic of the terrestrial biomes. Section: 02.03 Topic: Biomes and Ecosystems 22. Which of the following biomes have fertile soils that contain large quantities of organic matter?

- A. tropical rain forest
- B. temperate forest
- C. temperate grassland
- D. All of the choices are correct.
- **<u>E.</u>** both temperate forest and temperate grassland

Bloom's Level: 2. Understand Learning Outcome: 02.03.03 Contrast the soils typical of the terrestrial biomes. Section: 02.03 Topic: Biomes and Ecosystems

True / False Questions

23. Mycorrhizae are parasitic fungi that are depleting tropical trees of nutrients. **FALSE**

Bloom's Level: 2. Understand Learning Outcome: 02.03.04 Describe the types of vegetation, animals, and other organisms characteristic of the terrestrial biomes. Section: 02.03 Topic: Biomes and Ecosystems

24. As altitude increases, temperatures decrease, likewise, as latitude decreases, temperatures decrease. **FALSE**

Bloom's Level: 2. Understand Learning Outcome: 02.03.02 Describe the climatic differences among the biomes. Section: 02.03 Topic: Biomes and Ecosystems Chapter 02 - Life on Land

25. Trade winds move toward the equator. **TRUE**

Bloom's Level: 1. Remember Learning Outcome: 02.01.04 Explain the influence of the Coriolis effect on wind direction. Section: 02.01 Topic: Biomes and Ecosystems

26. In general, warm air can hold more moisture than cool air and therefore has a stronger evaporative effect. **TRUE**

Bloom's Level: 2. Understand Learning Outcome: 02.01.02 Define biome. Section: 02.01 Topic: Biomes and Ecosystems

27. The dispersal of the quanacaste tree's (*Enterolobium cyclocarpum*) seeds was performed by herbivores that have since become extinct; consequently, the tree is now on the verge of extinction. **FALSE**

Bloom's Level: 2. Understand Learning Outcome: 02.00.01 Describe how natural history has helped with restoration of tropical dry forest in Costa Rica. Section: 02.00 Topic: Biomes and Ecosystems

28. The precipitation in moist temperate regions is caused by the meeting of cool polar air and warm subtropical air. **TRUE**

Bloom's Level: 2. Understand Learning Outcome: 02.01.02 Define biome. Section: 02.01 Topic: Biomes and Ecosystems 29. Environments located at low latitudes at high elevations have similar climates as those environments located at high latitudes. **TRUE**

Bloom's Level: 2. Understand Learning Outcome: 02.03.02 Describe the climatic differences among the biomes. Section: 02.03 Topic: Biomes and Ecosystems

30. Proximity to large bodies of water moderates terrestrial temperatures. **TRUE**

Bloom's Level: 2. Understand Learning Outcome: 02.03.02 Describe the climatic differences among the biomes. Section: 02.03 Topic: Biomes and Ecosystems

31. In the region between the tropics of Cancer and Capricorn, seasonal variations in temperature and day length at low elevation are slight. **TRUE**

Bloom's Level: 2. Understand Learning Outcome: 02.01.01 Describe how natural history has helped with restoration of tropical dry forest in Costa Rica. Section: 02.01 Topic: Biomes and Ecosystems

32. A sample mean is a statistical estimate of the true population mean. **TRUE**

Bloom's Level: 1. Remember Learning Outcome: Analyze and Interpret Data. Section: Investigating the Evidence Topic: Biomes and Ecosystems

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Fill in the Blank Questions

33. Desert soils are often termed ______. lithosols

Bloom's Level: 1. Remember Learning Outcome: 02.03.03 Contrast the soils typical of the terrestrial biomes. Section: 02.03 Topic: Biomes and Ecosystems

34. Warm light air rises over the equator and moves ______ poleward

Bloom's Level: 1. Remember Learning Outcome: 02.01.02 Define biome. Section: 02.01 Topic: Biomes and Ecosystems

35. Irrigation of desert soils could lead to the formation of ______. caliches

Bloom's Level: 2. Understand Learning Outcome: 02.03.03 Contrast the soils typical of the terrestrial biomes. Section: 02.03 Topic: Biomes and Ecosystems