**Unit 4, Lesson 5 & 6**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

**\_\_\_\_** **1.** Addison tells her friend McKinley that she thinks the humidity is high because her hair is more curly than normal. Which tool could McKinley use to determine if the humidity is high?

|  |  |
| --- | --- |
| **A** | a barometer |
| **B** | a wind vane |
| **C** | a hygrometer |
| **D** | a thermometer |

**\_\_\_\_** **2.** Levick wants to determine if there is a trend in air temperature changes during April. Which of the following procedures should Levick follow?

|  |  |
| --- | --- |
| **A** | measure the temperature every hour for 1 day |
| **B** | measure the temperature at noon every day in April |
| **C** | measure the temperature at the same time each Monday |
| **D** | measure the temperature on the first and last day of April |

**\_\_\_\_ 3.** A cold front forms when a mass of cold air moves under warm air. As a cold front passes over an area, the air pressure drops and the area becomes a low-pressure zone. Which type of weather are you **most likely** to see when a cold front passes over an area?

|  |  |
| --- | --- |
| **A** | thunderstorms |
| **B** | clear skies |
| **C** | light winds |
| **D** | short showers |

**\_\_\_\_** **4.** Caydence is talking to her grandmother on the phone. Caydence’s grandmother says that she thinks there might be a thunderstorm soon. Which question should Caydence ask her grandmother in order to determine whether a thunderstorm is likely to occur?

|  |  |
| --- | --- |
| **A** | What color are the clouds? |
| **B** | How many clouds are there? |
| **C** | What type of clouds are there? |
| **D** | How much cloud cover is there? |

**\_\_\_\_ 5.** The following table lists some features of three different climate zones found on Earth.

|  |  |  |
| --- | --- | --- |
| **Climate zone** | **Average temperature** | **Location** |
| Polar | less than 10°C (50 °F)  (warmest month) | near the poles |
| Temperate | from 10°C to 18°C (50 °F to 65 °F) | middle latitudes, between the equator and the poles |
| Tropical | greater than 18°C (65 °F)  (all months) | near the equator |



The graph shows the average temperatures in Miami, Florida. In what climate zone is Miami located?

|  |  |
| --- | --- |
| **A** | polar |
| **B** | subpolar |
| **C** | temperate |
| **D** | Tropical |

**\_\_\_\_ 6.** The climate of an area is determined partly by location. Three major climate zones are tropical, temperate, and polar.



Which places shown on the map have a tropical climate?

|  |  |
| --- | --- |
| **A** | points A and B |
| **B** | points B and D |
| **C** | points C and E |
| **D** | points D and E |

**\_\_\_\_ 7.** One factor that affects climate is latitude. Generally, places closer to the equator have warmer climates and places farther from the equator have cooler climates. Look at the following map.



Based on their locations, which places shown on the map are **likely** to have a temperate climate?

|  |  |
| --- | --- |
| **A** | points A and B |
| **B** | points B and D |
| **C** | points C and E |
| **D** | points D and E |

**\_\_\_\_** **8.** Owen lives in South Africa, where the climate is temperate. He is explaining to his friend how to determine the climate of an area. Which instruction is he **most likely** to give his friend to find the climate of an area?

|  |  |
| --- | --- |
| **A** | Measure the highest and lowest temperatures in a particular year. |
| **B** | Find the average weather conditions over a period of many years. |
| **C** | Find the weather conditions on a particular day and compare them to other days. |
| **D** | Record the amounts of rainfall and the wind speed and direction for several months. |

**\_\_\_\_ 9.** Although many places have similar climates, each place on Earth has its own climate, described by certain characteristics. What are the key factors that scientists use to determine the climate of a particular place?

|  |  |
| --- | --- |
| **A** | temperature and precipitation |
| **B** | length of seasons and precipitation |
| **C** | distance from the ocean and altitude |
| **D** | types of living things and temperature range |

**\_\_\_\_ 10.** In a climate zone, the amount of precipitation can vary from one place to another. Which of these factors could cause a local climate to be wet and have heavy precipitation?

|  |  |
| --- | --- |
| **A** | being near a large body of water |
| **B** | the change of season from winter to spring |
| **C** | the approach of a large storm such as a hurricane |
| **D** | an increase in the number of animals in a large forest |

**\_\_\_\_ 11.** Some places have large changes in temperature during a year, and other places have small changes. Which of these places has the climate with the **smallest** annual temperature change?

|  |  |
| --- | --- |
| **A** | arctic plain |
| **B** | temperate desert |
| **C** | tropical rain forest |
| **D** | temperate woodland |

**\_\_\_\_ 12.** Mountain ranges tend to affect climates in nearby areas. What happens when a warm, moist air mass reaches a mountain range?

|  |  |
| --- | --- |
| **A** | The air mass stops moving. |
| **B** | The air mass rises and cools. |
| **C** | The air mass rises and warms. |
| **D** | The air mass moves around the mountain range. |

**\_\_\_\_ 13.** Over long periods of time, the climate of an area can change. Which of these can cause a change in climate?

|  |  |
| --- | --- |
| **A** | Earth’s position along its orbit |
| **B** | a long-term increase in temperature |
| **C** | tides caused by the motion of the moon |
| **D** | heating and cooling from a body of water |

**\_\_\_\_** **14.** Tanner’s class was doing a project on weather in different environments in North America. Tanner’s assignment was to research common weather conditions in one type of environment. Tanner made the table below to show what he found.

|  |  |
| --- | --- |
| **Temperature** | low to moderate temperatures |
| **Rainfall** | low to moderate rainfall |
| **Snowfall** | snowfall common in winter |
| **Winds** | light cool winds common |

Which type of environment was Tanner **most likely** researching?

|  |  |
| --- | --- |
| **A** | desert |
| **B** | mountain |
| **C** | rain forest |
| **D** | swamp |

**\_\_\_\_ 15.** Two towns have about the same latitude and elevation. One town is on the coast and the other is far inland. How would the summer weather of the inland town mostlikely be **different** from the weather in the coastal town?

|  |  |
| --- | --- |
| **A** | lower temperatures and experience less rainfall |
| **B** | higher temperatures and experience less rainfall |
| **C** | lower temperatures and experience more rainfall |
| **D** | higher temperatures and experience more rainfall |

**\_\_\_\_** **16.** Ansley’s family is putting together an emergency kit in case there is a natural disaster. Their kit includes a two-way radio that runs on batteries and spare sets of batteries. Which of the following is the **least** important reason for including the radio and batteries in the kit?

|  |  |
| --- | --- |
| **A** | It could be a way of staying entertained. |
| **B** | It would still work if the power went out. |
| **C** | It could be used to contact people for help. |
| **D** | It would allow them to receive information. |

**Unit 4, Lesson 5 & 6**

**Answer Section**

**MULTIPLE CHOICE**

**1.** C

**2.** B

**3.** A

**4.** C

**5.** D

**6.** C

**7.** B

**8.** B

**9.** A

**10.** A

**11.** C

**12.** B

**13.** B

**14.** B

**15.** B

**16.** A