

TEST NAME: Science 7 Unit 1: 1R (COPY)
TEST ID: 2657410
GRADE: 07 - Seventh Grade
SUBJECT: Life and Physical Sciences
TEST CATEGORY: School Assessment

Student: _____
Class: _____
Date: _____

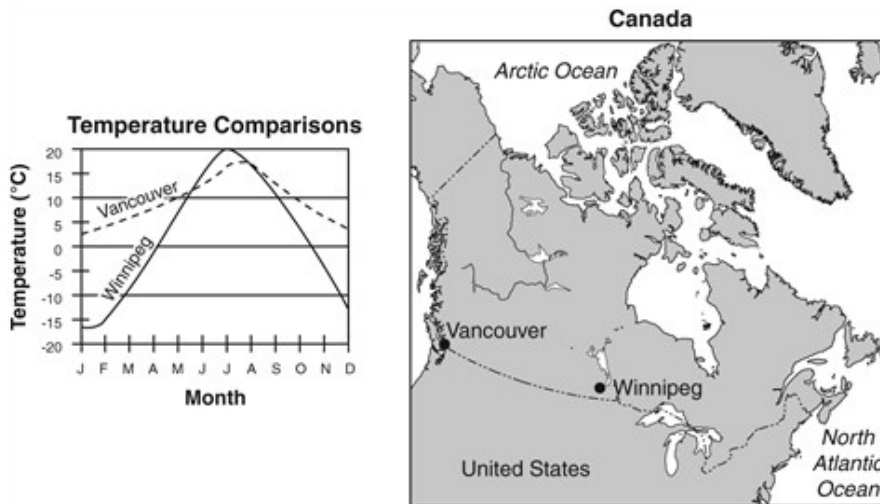
1. **In Washington's Olympic National Park, there are areas that receive over 100 inches (254 cm) of rain per year and are classified as rain forests. Yet a few miles east in Sequim, Washington, the annual rainfall is less than 15 inches (38.1 cm) per year.**



How did tectonic activity substantially contribute to this climate pattern?

- A. by creating the many coves in the coastline
 - B. by folding and uplifting the Olympic Mountains
 - C. by wearing away sediments to create the Juan de Fuca Strait
 - D. by reducing the depth of the coastline, making it closer to sea level
2. **Ocean currents, prevailing wind patterns, and other atmospheric disturbances are initially caused by which of these?**
 - A. differences in the phases of the moon
 - B. gravitational pull of the Sun
 - C. incoming solar radiation
 - D. ozone layer depletion
 3. **Earth is heated by the Sun. Because Earth is spherical, sunlight hits Earth differently at different latitudes. What effect does this have on temperatures at the equator and at the poles? Explain your answer.**

4. The graph shows average monthly temperatures in Vancouver and Winnipeg, Canada.



Which is the BEST interpretation of the data in the graph?

- A. Temperatures in Winnipeg fluctuate unpredictably.
- B. Temperatures in Vancouver stay constant throughout the year.
- C. Summers in Winnipeg have much higher temperatures than summers in Vancouver.
- D. The annual range of temperatures for Winnipeg has greater variation than the annual range for Vancouver.

5. Which factor causes the motion of surface ocean currents?

- A. the Sun
- B. the wind
- C. the Moon
- D. hurricanes

6. Going north from the equator, hot, moist climates are replaced by hot, dry climates. The boundary between these two climate types is determined by which factor?

- A. altitude above sea level
- B. types of local plant cover
- C. circulation patterns of regional air masses
- D. distance to the nearest mountain range

7. Which of these MOST likely causes winds to blow on Earth?

- A. Earth spins quickly, causing air to blow around.
- B. The gravity of Earth and the Moon push and pull the air.
- C. Warm air rises and cool air falls toward Earth's surface.
- D. Ocean waves push air onto the shore and across Earth's surface.

8. **Which of the following are narrow belts of strong winds found in the upper troposphere?**
- A. doldrums
 - B. westerlies
 - C. trade winds
 - D. jet streams
9. **Many countries depend on the energy from fossil fuels. Some scientists suggest using renewable sources of energy instead. Why would scientists MOST likely suggest using renewable sources of energy?**
- A. They are safer for the environment.
 - B. They are cheaper to develop.
 - C. They are easier to transport.
 - D. They produce more energy.
10. **Toxic chemicals in mobile phone batteries can pollute the environment when the phones are thrown away in unlined landfills. Which of the following BEST explains why people continue to use mobile phones even though the phones can have a negative impact on the environment?**
- A. Mobile phones are less expensive than phones with cords.
 - B. Mobile phones cause people to become distracted.
 - C. Mobile phones cause less environmental damage than other electronic products.
 - D. Mobile phones make communication more convenient.