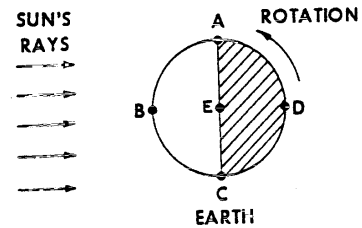


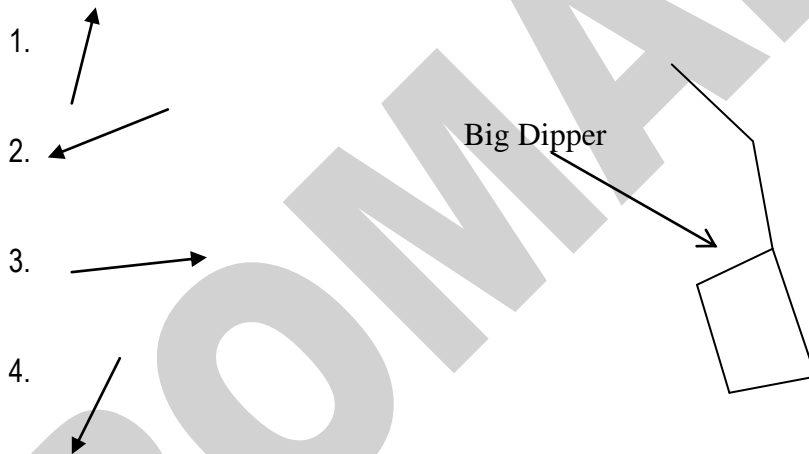
Model of the Earth Review Set 4

1. Which of the following are the coordinates of Jamestown?
- | | |
|-----------------------|-----------------------|
| (1) 42°08'N , 79°14'W | (3) 41°52'N , 79°14'W |
| (2) 42°08'S , 79°14'W | (4) 79°14'N , 42°08'W |

2. What is the approximate time at point A?
- | | |
|-------------|-------------|
| (1) 12:00pm | (3) 12:00am |
| (2) 6:00am | (4) 6:00pm |



3. The diagram below represents the Big Dipper. Which arrow represents the direction to Polaris?

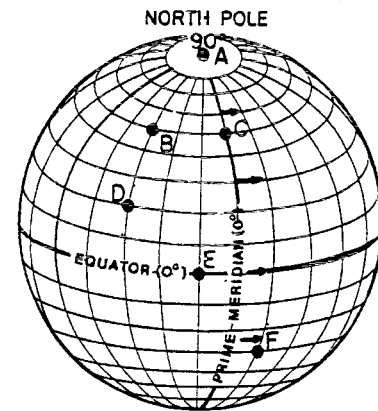


4. What is the average temperature at sea level?
- | | |
|----------|-----------|
| (1) 0°F | (3) -55°C |
| (2) 15°F | (4) 15°C |

5. What is the longitude of the Hawaii Hot Spot?
- | | |
|-----------|-----------|
| (1) 155°W | (3) 155°N |
| (2) 63°N | (4) 155°E |

6. What is the most abundant gas in the troposphere?
- | | |
|--------------------|--------------|
| (1) carbon dioxide | (3) oxygen |
| (2) nitrogen | (4) hydrogen |

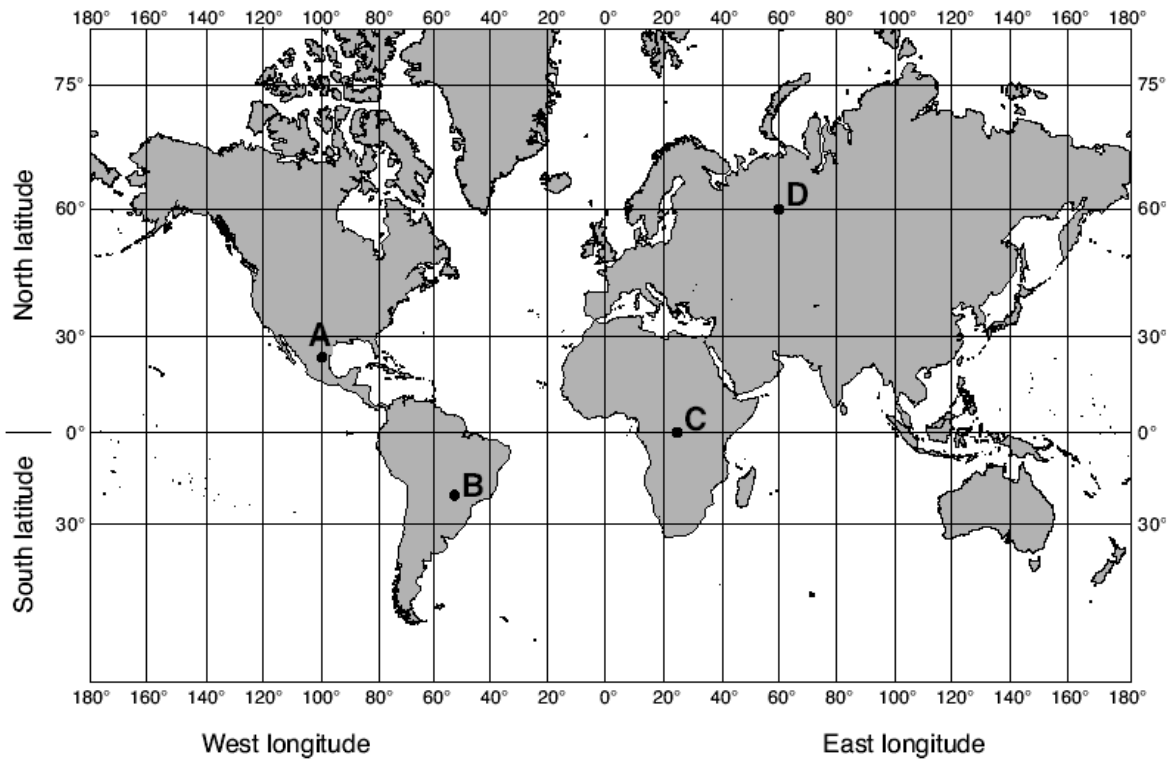
Use the diagram to the right to answer **questions 7-11**.



7. What is the altitude of Polaris as viewed from position A?
 (1) 50° (2) 66° (3) 0° (4) 90°
8. Which two points are in the same time zone?
 (1) B and C (2) C and F (3) B and D (4) E and F
9. The globe to the right is a standard globe with each line of longitude being 15° apart, and the time at point D is 4:00pm. What is the time at point F?
 (1) 12:00pm (2) 8:00pm (3) 12:00am (4) 7:00pm
10. At which position could Polaris definitely not be observed?
 (1) E (2) F (3) C (4) A
11. As a ship traveled in the ocean from point B to point E, observers on the ship would see the altitude of Polaris
 (1) increase (2) decrease (3) remain the same
12. What is the latitude of the Tropic of Capricorn?
 (1) 23.5°N (2) 23.5°S (3) 66.5°S (4) 66.5°N
13. What city in New York State would observe the altitude of Polaris to be 43° above the horizon?
 (1) New York City (2) Elmira (3) Watertown (4) Syracuse
14. Which of the following statements is not true of the Earth's atmosphere?
 (1) The troposphere consists of 99% of all the water vapor in the atmosphere.
 (2) The temperature constantly decreases from the Earth's surface to the upper thermosphere.
 (3) The ozone layer is located within the stratosphere.
 (4) As altitude increases, atmospheric pressure decreases.
15. At which altitude would the temperature of the atmosphere be the coldest?
 (1) 11 km (2) 50 km (3) 40 km (4) 80 km

16. The approximate latitude of Utica, New York, is
 (1) $43^{\circ}05'$ N (3) $75^{\circ}15'$ E
 (2) $43^{\circ}05'$ S (4) $75^{\circ}15'$ W
17. Which temperature zone of Earth's atmosphere contains the most water vapor?
 (1) mesosphere (3) thermosphere
 (2) stratosphere (4) troposphere
18. The two elements that make up the largest percentage by mass of Earth's crust are oxygen and
 (1) silicon (3) hydrogen
 (2) potassium (4) nitrogen

Base your answers to question 19 on the world map below.
 Letters A through D represent locations on Earth's surface.



19. At which location could an observer *not* see *Polaris* in the night sky at any time during the year?
 (1) A (3) C
 (2) B (4) D
20. Chlorofluorocarbons have been linked to the destruction of
 (1) ozone which protects humans from the harmful infrared rays of the Sun
 (2) oxygen which is necessary for humans to breathe and survive
 (3) ozone which protects humans from the harmful ultraviolet rays of the Sun
 (4) carbon dioxide which absorbs infrared energy radiated by the Earth