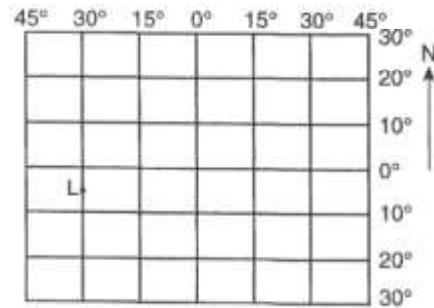


MODEL OF THE EARTH REVIEW QUESTIONS SET 1

The diagram to the right represents part of Earth's latitude-longitude system.



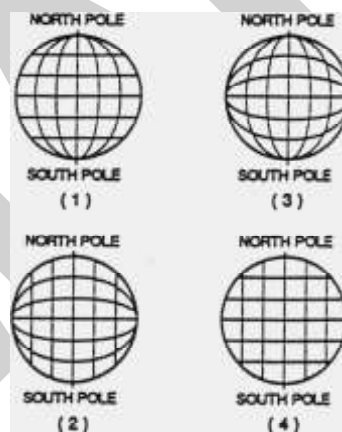
1. What are the coordinates of point L?

- (1) 5°S, 30°W
- (2) 5°N, 30°E
- (3) 5°W, 30°S
- (4) 5°E, 30°N

2. Which latitude and longitude coordinates represent a location on the continent of Australia?

- (1) 20°S, 135°W
- (2) 20°S, 135°E
- (3) 20°N, 135°W
- (4) 20°N, 135°E

The diagrams to the right represent four systems of imaginary lines that could be used to locate positions on a planet.



3. Which system is most similar to the latitude-longitude system used on the Earth?

4. Which of the following is thickest in depth?

- (1) hydrosphere
- (2) lithosphere
- (3) atmosphere
- (4) thermosphere

5. An air temperature of 95°C most often exists in which layer of the atmosphere?

- (1) mesosphere
- (2) thermosphere
- (3) troposphere
- (4) stratosphere

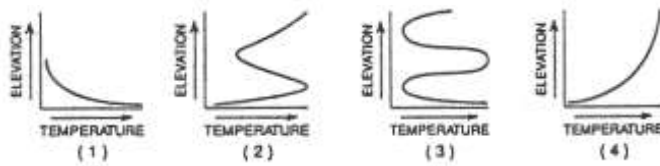
6. Earth's troposphere, hydrosphere, and lithosphere contain relatively large amounts of which element?

- (1) hydrogen
- (2) potassium
- (3) iron
- (4) oxygen

7. As the altitude increases within Earth's mesosphere, air temperature generally

- (1) decreases, only
- (2) increases, only
- (3) decreases, then increases
- (4) increases, then decreases

15. Which graph best represents the relationship between air temperature and elevation in the troposphere?



16. What is the temperature of the atmosphere at the stratopause?
- (1) -90°C (3) 0°C
(2) -55°C (4) 15°C
17. The total amount of water vapor per cubic meter in the atmosphere at sea level is approximately
- (1) 1 - 5 g/m^3 (3) 10 - 15 g/m^3
(2) 8 - 10 g/m^3 (4) 30 - 40 g/m^3
18. The most abundant gas in the troposphere is
- (1) nitrogen (3) carbon dioxide
(2) oxygen (4) water vapor
19. If atmospheric pressure measurements were taken at regular intervals from sea level to the mesopause, the measurements would most likely show that the pressure
- (1) decreases, only (3) remains the same
(2) increases, only (4) decreases, then increases
20. What is the approximate thickness of the stratosphere?
- (1) 11 km (3) 50 km
(2) 39 km (4) 81 km
21. What is the average temperature at sea level?
- (1) 15°C (3) -55°C
(2) 0°C (4) -90°C
22. What is the approximate altitude of the mesopause?
- (1) 50 km (3) 80 km
(2) 66 km (4) 90 km
23. As the altitude within the troposphere increases, the amount of water vapor generally
- (1) decreases, only (3) remains the same
(2) increases, only (4) decreases, then increases
24. 99% of all weather occurs in the
- (1) stratosphere (3) troposphere
(2) thermosphere (4) mesosphere