

- 1) A geostrophic wind:
 - A) flows perpendicular to the pressure gradient force.
 - B) is usually not affected by the Coriolis force.
 - C) follows the pressure gradient force.

- 2) The Coriolis effect is strongest at this latitude:
 - A) 90 degrees.
 - B) 45 degrees.
 - C) 15 degrees.
 - D) 0 degrees.

- 3) The maximum concentrations of ozone are found in the:
 - A) mesosphere.
 - B) troposphere.
 - C) ionosphere.
 - D) stratosphere.

- 4) The sky is blue because of:
 - A) rayleigh scattering.
 - B) reflection.
 - C) mie scattering.
 - D) absorption.
 - E) refraction.

- 5) Volcanic outgassing:
 - A) has had little effect on the earth's atmosphere.
 - B) created the earth's first atmosphere.
 - C) emits very little carbon dioxide.
 - D) emits large amounts of water vapor.

- 6) The temperature is lowest here:
 - A) stratosphere.
 - B) mesopause.
 - C) tropopause.
 - D) stratopause.

- 7) Choose the correct listing of radiation from the longest wavelengths to the shortest wavelengths:
- A) x-rays, ultraviolet, infrared, gamma rays, visible, radio.
 - B) radio, infrared, visible, ultraviolet, x-rays, gamma rays.
 - C) gamma rays, radio, ultraviolet, infrared, visible, x-rays.
 - D) radio, gamma rays, ultraviolet, visible, infrared, x-rays.
- 8) The solar constant:
- A) is higher for Earth than for Mars.
 - B) varies inversely with the fourth power of an object's distance from the Sun's surface.
 - C) is the same throughout the solar system.
- 9) The four factors that are totally responsible for wind are:
- A) the pressure gradient force, the Coriolis force, the centripetal acceleration, moisture content.
 - B) the centripetal acceleration, moisture content, friction, Coriolis force.
 - C) friction, centripetal acceleration, pressure gradient force, moisture content.
 - D) the Coriolis force, friction, the centripetal acceleration, the pressure gradient force.
- 10) Horizontal pressure changes are ___ than vertical pressure changes.
- A) about the same
 - B) greater
 - C) less than
 - D) None of the above. There are no horizontal pressure changes.

Answer

- 1) A
- 2) A
- 3) D
- 4) A
- 5) D
- 6) B
- 7) B
- 8) A
- 9) D
- 10) C

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