

Name _____

Student ID _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) In comparing the three scales of temperature, the temperature divisions on the _____ scale and the _____ scale are both larger than the divisions on the _____ scale.
A) Celsius, Kelvin, Fahrenheit
B) Kelvin, Fahrenheit, Celsius
C) Celsius, Fahrenheit, Kelvin
D) None of the above: the divisions are equal on all three scales.
- 2) The sky is blue because of:
A) absorption.
B) reflection.
C) rayleigh scattering.
D) mie scattering.
E) refraction.
- 3) Hydrostatic equilibrium occurs when:
A) the force of gravity and the vertical pressure gradient both act to push air upward.
B) large air masses are moving either up or down.
C) the force of gravity and the vertical pressure gradient both act to push air downward.
D) the force of gravity and the vertical pressure gradient have equal value and oppose each other.
- 4) Of the following planets, which has the largest greenhouse effect in its atmosphere?
A) Earth B) Venus C) Mars
- 5) The highest temperatures are typically found in the:
A) thermosphere. B) troposphere.
C) stratosphere. D) mesosphere.

- 6) Mercury barometer readings must be corrected for all of the following factors, except:
A) changes in the acceleration of gravity with latitude.
B) temperature.
C) elevation above sea level.
D) moisture content of the air.
- 7) The Stefan-Boltzmann law:
A) does not apply to black bodies.
B) demonstrates that a cooler body will radiate with greater intensity than will a hotter body.
C) is derived from Wien's law.
D) gives energy intensities in watts per square meter.
- 8) The maximum concentrations of ozone are found in the:
A) ionosphere. B) mesosphere.
C) troposphere. D) stratosphere.
- 9) This is the most abundant gas in the atmosphere:
A) oxygen. B) nitrogen.
C) water vapor. D) carbon dioxide.
- 10) Which of the following has the shortest wavelength?
A) visible radiation
B) gamma radiation
C) ultraviolet radiation
D) microwave radiation

Answer Key

Testname: QUIZZE.1.TST

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