

2. The proper order of waves from longest to shortest is:
 - a. visible, infrared, ultraviolet
 - b. infrared, visible, ultraviolet
 - c. ultraviolet, visible, infrared
 - d. visible, ultraviolet, infrared
 - e. ultraviolet, infrared, visible

3. Heat is energy in the process of being transferred from:
 - a. low pressure to high pressure
 - b. cold objects to hot objects
 - c. high pressure to low pressure
 - d. hot objects to cold objects
 - e. regions of low density toward regions of high density

4. The rate at which radiant energy is emitted by a body:
 - a. increases with decreasing temperature
 - b. increases with increasing temperature
 - c. does not depend on the body's temperature

5. If the earth had no atmospheric greenhouse effect, the average surface temperature would be:
 - a. lower than at present
 - b. higher than at present
 - c. the same as it is now

6. If the earth's average surface temperature should increase, the amount of radiation emitted from the earth's surface will _____, and the wavelength of maximum emission will shift toward _____ wavelengths.
 - a. increase, shorter
 - b. increase, longer
 - c. decrease, shorter
 - d. decrease, longer

7. The moon's surface can only cool by (hint: the moon has no atmosphere):
 - a. convection
 - b. conduction
 - c. radiation

8. The earth's atmospheric greenhouse effect is produced mainly by water vapor and carbon dioxide absorbing and emitting:
 - a. visible radiation
 - b. infrared radiation
 - c. ultraviolet radiation