d. Gamma
 8. An object that is giving off only infrared electromagnetic waves is giving off heat through: a. Conduction b. Convection c. Radiation d. Visible light
 9. The electromagnetic radiation that causes tanning: a. can produce cancer. b. rarely passes through glass windows. c. is absorbed by ozone. d. Only the options a. and c. above are correct. e. All of the options a., b. and c. above are correct.
 10. Plank's quantum theory is compatible with the experimental data related to which of the following? a. Blackbody radiation b. the photelectric effect c. line spectra emitted by hydrogen gas d. all of the options a., b. and c. above are correct
11. As the temperature of a radiation emitting blackbody becomes higher, what happens to the peak wavelength of the radiation? a. decreases b. increases c. remains constant d. is directly proportional to temperature 12. According to Wien's displacement law, if the absolute temperature of a radiating blackbody
is tripled, then the peak wavelength emitted will change by what factor? a. 1/3 b. 1 c. 3 d. 9

6. Temperature variation of different parts of a person's body can be detected by analyzing the

7. Of the various types of electromagnetic radiation listed in the options below, which is the most

emission pattern of which electromagnetic radiation?

a. Infraredb. Microwavec. Ultravioletd. X-rays

a. Visibleb. Ultravioletc. Infrared

penetrating through all forms of matter?