



Center for Energy Research and Technology
North Carolina A&T State University

CERT Educational Series Heat Transfer

Quiz Question Bank

1. What is a transfer of energy from one object to another due to a difference in temperature called?
 - a. Compound
 - b. Heat
 - c. Mass
 - d. Mixture

2. What is the direct transfer of heat from one substance to another substance that is touching called?
 - a. Convection
 - b. Convection currents
 - c. Radiation
 - d. Conduction

3. The transfer of heat by the movement of a fluid is called
 - a. Radiation
 - b. Infrared
 - c. Conduction
 - d. Convection

4. How do you know when the transfer of heat (thermal energy) has ended?
 - a. Both objects reach the same temperature
 - b. When you can measure the amount of heat
 - c. When the substance that is receiving the heat reaches its boiling point
 - d. It never ends

5. Only very hot materials, like lava from a volcano, are capable of transferring thermal energy through the process of radiation
 - a. True
 - b. False

6. The transfer of thermal energy by the circulation of a liquid or gas is called
 - a. Convection
 - b. Greenhouse effect
 - c. Thermal conduction
 - d. Air pressure

7. The three types of heat transfer are radiation, conduction, and convection.
 - a. True
 - b. False

8. The transfer of thermal energy through a material is called
 - a. Convection
 - b. Greenhouse effect
 - c. Conduction
 - d. Radiation

9. An insulator is a material that...
 - a. Moves heat easily through the material
 - b. Reduces or prevents the transfer of heat
 - c. Is flammable and can start fires
 - d. Does not exist