Automotive Technology 6th Edition Chapter 13 - Scientific Principles and Materials Quiz 13A	
Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the quest	ion.
 1) What term describes the result when force is used to move an object? A) Work B) Energy C) Both A and B D) Neither A nor B 	1)
 2) One horsepower is the power required to move pound(s) a distance of one foot in one second. A) 550 B) 33000 C) 1 D) none of these 	2)
 3) If a closed container of gas is compressed the volume of the gas will and the temperature will A) increase; increase B) decrease; increase C) remain the same; become cooler D) decrease; remain the same 	3)
4) Heat can move or travel by A) conduction B) convection C) radiation D) all of these	4)
 5) All of the following are correct statements about braking EXCEPT A) kinetic energy must be absorbed by the brake system B) kinetic energy of a vehicle doubles when the speed doubles C) the heavier the vehicle, the greater the kinetic energy when moving D) if the weight of the vehicle is doubled, the kinetic energy of a moving vehicle is doubled 	5)
6) Kinetic energy of a moving object increases at a rate that isA) the square of its speedB) equal to its speedC) half its speed	6)

D) none of these

 7) Two technicians are discussing temperature and heat. Technician A says that temperature is the intensity of the heat source. Technician B says that heat is the amount of heat. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians 	7)
D) Neither technician 8) Technician A says that work is being performed if a force is being applied, yet the object does not	8)
move. Technician B says that torque is a twisting force that may or may not result in motion. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians D) Neither technician	
9) Generally, materials that are good conductors of heat are also good conductors of electricity.A) TrueB) False	9)
 10) Technician A says that the kinetic energy of a vehicle is proportional to its weight. Technician B says that the kinetic energy of a moving vehicle is directly proportional to its speed. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians 	10)

D) Neither technician

Answer Key

Testname: AT6_13A

- 1) A Page Ref: 113
- 2) A
- Page Ref: 114
- 3) B
 - Page Ref: 119
- 4) D
 - Page Ref: 117
- 5) B
 - Page Ref: 115-116
- 6) A
- Page Ref: 115
- 7) C
 - Page Ref: 117
- 8) B
 - Page Ref: 113
- 9) A
- Page Ref: 117
- 10) A
 - Page Ref: 115-116