

Name \_\_\_\_\_

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

- 1) It takes 50 pounds of force to move a 100 pound block of wood across the floor. The coefficient of friction is \_\_\_\_\_. 1) \_\_\_\_\_
  - A) 1.5
  - B) 2.0
  - C) 0.5
  - D) 1.0
  
- 2) Weight has a greater effect on kinetic energy than speed. 2) \_\_\_\_\_
  - A) True
  - B) False
  
- 3) Technician A says that the front brakes do most of the braking because the front wheels are larger. Technician B says that due to weight transfer, most of the braking force needs to be done by the front brakes. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) Lining fade occurs when \_\_\_\_\_. 4) \_\_\_\_\_
  - A) The friction material overheats
  - B) The drum or rotor expands from heat
  - C) Dust particles build up between the friction material and the drum or rotor
  - D) The brake fluid boils
  
- 5) Maximum deceleration rates for a typical passenger car or light truck is \_\_\_\_\_. 5) \_\_\_\_\_
  - A) 1 to 3 ft/sec
  - B) 5 to 10 ft/sec
  - C) 16 to 32 ft/sec<sup>2</sup>
  - D) 200 to 250 ft/sec<sup>2</sup>
  
- 6) What can the driver do to reduce the possibility of brake fade caused by heat? 6) \_\_\_\_\_
  - A) Ride the brakes to keep the shoes and pads against the drum or rotor
  - B) Pump the brake pedal while descending a steep hill
  - C) Select a lower transmission gear
  - D) Shift the transmission into neutral and allow the vehicle to coast down long or steep hills
  
- 7) Disc brake pads can reach temperatures as high as \_\_\_\_\_. 7) \_\_\_\_\_
  - A) 300°F (150°C)
  - B) 1,000°F (540°C)
  - C) 1,300°F (700°C)
  - D) 1,800°F (980°C)

- 8) Brake pads and linings that use synthetic material such as aramid fibers instead of steel are usually referred to as \_\_\_\_\_. 8) \_\_\_\_\_
- A) NAO
  - B) NAS
  - C) Ceramic
  - D) Any of the above
- 9) A body in motion tends to remain in motion in a straight line unless acted upon by an outside force. 9) \_\_\_\_\_
- A) True
  - B) False
- 10) The static friction coefficient is always higher than the kinetic friction coefficient. 10) \_\_\_\_\_
- A) True
  - B) False

## Answer Key

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1) C

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2) B

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3) B

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4) A

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5) C

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6) C

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7) D

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8) D

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9) A

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10) A

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