

Name _____

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

- 1) Brake pads and linings that use synthetic material, such as aramid fibers, instead of steel are usually referred to as _____. 1) _____
 - A) NAO
 - B) NAS
 - C) ceramic
 - D) Any of the above

- 2) What type of binder is used in all brake friction materials? 2) _____
 - A) Rubber scrap
 - B) Carbon
 - C) Phenolic resin
 - D) Ceramic powders

- 3) It takes 50 pounds of force to move a 100 pound block of wood across the floor. The coefficient of friction is _____. 3) _____
 - A) 1.5
 - B) 2.0
 - C) 0.5
 - D) 1.0

- 4) Where are brake lining "edge codes" printed? 4) _____
 - A) On the edge of brake shoes
 - B) On the back of brake pads
 - C) On the front of brake pads
 - D) Either A or B

- 5) The process of braking is the conversion of kinetic energy into heat energy through friction. 5) _____
 - A) True
 - B) False

- 6) The static friction coefficient is always higher than the kinetic friction coefficient. 6) _____
 - A) True
 - B) False

- 7) Which Greek letter is used to represent the coefficient of friction? 7) _____
 - A) Mu (μ)
 - B) Omega (Ω)
 - C) Delta (Δ)
 - D) Pi (π)

- 8) Technician A says that disc brake rotors may have internal passages for cooling. Technician B says that the faster the vehicle is traveling when the brakes are applied, the greater the amount of heat created in the brake system. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 9) Why is copper being reduced in brake friction materials? 9) _____
- A) Because it is a health concern when it becomes airborne.
 - B) It can affect life in rivers and streams.
 - C) To help reduce the weight of the vehicle
 - D) To help reduce the cost of the brake pads/linings
- 10) Technician A says that the front brakes do most of the braking because the front brakes 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? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

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1) D

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2) C

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3) C

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4) D

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5) A

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6) A

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7) A

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8) C

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9) B

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10) B

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