

Name _____

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

- 1) Which is NOT true about AWD vehicles? 1) _____
A) It is also called part-time 4WD
B) It is also called full-time 4WD
C) They often contain a center differential
D) These vehicles provide excellent traction on wet or icy roads
- 2) An AWD transfer case may also include a _____. 2) _____
A) Shifter for the front output shaft
B) Differential
C) Low-range gear set
D) All of these
- 3) Technician A says that the 4WD mode of many utility vehicles must be engaged when the vehicle is stopped. Technician B says that newer electronically operated 4WD systems can be activated "on the fly." Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 4) Which of these is NOT a function of a 4WD transfer case? 4) _____
A) Controls power flow to the front driveshaft
B) Provides gear reduction for additional torque
C) Add an extra overdrive gear
D) Provides driving torque to the rear drive wheels
- 5) Low range in a transfer case is about what ratio? 5) _____
A) 2:1 to about 3:1
B) 8:1
C) 10:1
D) 12:1 or higher
- 6) Low range in many transfer cases _____. 6) _____
A) Is available only while in 2 wheel drive mode
B) Sends power flow through a reduction gear set
C) Both A and B
D) Neither A nor B

- 7) Technician A says that all 4WD utility vehicles use a solid front drive axle. Technician B says that some 4WD utility vehicles use a solid front drive axle with Cardan U-joints at the axle ends. Which technician is correct? 7) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) Two technicians are discussing electronic vacuum operated front hub systems. Technician A says that vacuum is used to engage the hub with the drive axle. Technician B says that vacuum is used to release the hub from the drive axle. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) What can occur if a part-time four-wheel-drive vehicle is drive on hard pavement in four-wheel drive? 9) _____
- A) Shake and shutter as engine torque is applied to the drive wheels
 - B) Slip and hop over the pavement
 - C) Driveline vibrations and damage to drive shafts, U-joints, and bearings
 - D) All of the above can occur
- 10) When a vehicle turns a corner, what is TRUE about the four wheel travel? 10) _____
- A) Each wheel travels a different distance
 - B) The two right side wheels turn the same distance
 - C) The two left side wheels turn the same distance
 - D) Both B and C are correct

Answer Key

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1) A

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2) B

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3) C

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4) C

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5) A

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6) B

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7) B

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8) A

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9) D

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10) A

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