

Name _____

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

- 1) Technician A says that the gear ratios of both differentials are the same in a four-wheel-drive vehicle. Technician B says that the rear differential has a slightly higher ratio (lower number) than the front differential. Which technician is correct? 1) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 2) When part-time 4WD vehicles in 4WD are engaged in a turn, which of these occur? 2) _____
A) The rear wheels travel faster and farther than the front wheels.
B) The front wheels travel faster and farther than the rear wheels.
C) The rear wheels turn faster and farther than the front wheels.
D) The front wheels will have reduced toe-out on turns.
- 3) Two technicians are discussing the viscous coupling used in all-wheel drive systems. Technician A says a viscous fluid such as a silicon-based oil is added to the assembly and fills the areas between the clutch plates. Technician B says the viscous coupling is active during equal traction conditions. Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 4) Technician A says that a vehicle equipped with part-time four-wheel drive should be driven in four-wheel drive only on slippery surfaces. Technician B says that full-time four-wheel-drive vehicles use a center differential in the transfer case. Which technician is correct? 4) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 5) Two technicians are discussing the front axle disconnect mechanism. Technician A says that the front axles are only disconnected if the vehicle is being towed. Technician B says that this unit is only used on all-wheel-drive vehicles. Which technician is correct? 5) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 6) Driveline wind-up on a part-time 4WD system results in all of the listed conditions EXCEPT _____ 6) _____
- A) the turning radius is different for the left and right wheels as well as the front and rear wheels
 - B) no differential action between the front and rear axles
 - C) the front wheels tend to scoot along the pavement causing a driveline vibration
 - D) low traction situations from heavy rain, mud, or snow
- 7) Technician A says that most transfer cases have a built in oil pump. Technician B says that most transfer cases use a heavy grease as a lubricant. Which technician is correct? 7) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) Technician A says that a range shift is used to select high or low gear ratios within the transfer case. Technician B says that a mode shift is used to select two wheel drive or four wheel drive. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) A transfer case contains all of the following components, EXCEPT _____. 9) _____
- A) front output shaft
 - B) shift mechanism
 - C) four drive sprockets
 - D) planetary gearset assembly
- 10) A transfer case is extremely noisy in all selections except neutral (N) whenever the vehicle is moving. Technician A says the drive chain may be stretched, causing the noise as it hits the inside of the case. Technician B says that one or more of the transfer case bearings could be defective. Which technician is correct? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

Answer Key

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1) B

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2) B

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3) A

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4) C

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5) D

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6) D

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7) A

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8) C

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9) C

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10) C

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