

Name _____

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

- 1) A transfer case contains all of the following components, EXCEPT _____. 1) _____
 - A) front output shaft
 - B) shift mechanism
 - C) four drive sprockets
 - D) planetary gearset assembly

- 2) The planetary gearsets used in transfer cases consist of all of the following components EXCEPT _____ 2) _____
 - A) sun gear
 - B) internal ring gear
 - C) planet carrier assembly
 - D) forward clutch

- 3) A transfer case is difficult to shift (range shift). Technician A says that the shift linkage or shift fork may be worn or damaged. Technician B says that the blocking ring may be worn or damaged. Which technician is correct? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) 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? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) Technician A says the held member of a planetary gearset is called the drive member. Technician B says the held member of a planetary gearset is called the reaction member. Which technician is correct? 5) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 6) An AWD transfer case must include a _____. 6) _____
 - A) shifter for the front output shaft
 - B) differential
 - C) low-range gear set
 - D) all of these

- 7) 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? 7) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) Two technicians are discussing the towing of a four-wheel-drive vehicle. Technician A says that the vehicle should be transported on a flatbed truck to avoid the possibility of doing damage to the drive train. Technician B says that the wheels not lifted off the ground by the tow truck should be placed on a dolly to prevent doing damage to the drive train. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) Technician A says a 4WD transfer case is an auxiliary 2-speed transmission. Technician B says a planetary gearset provides a low and high range. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) Technician A says that a transfer case may use GL-4 gear lube such as SAE 80W-90. Technician B says that a transfer case may use automatic transmission fluid (ATF). 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) C

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2) D

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3) C

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4) A

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5) B

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6) B

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7) C

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8) C

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9) C

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10) C

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