

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. What does a range shift in a transfer case do?
  - A. Selects between two sets of gear ratios
  - B. Engages or disengages the four-wheel-drive system
  - C. Locks or unlocks the differentials
  - D. Adjusts the suspension for better off-road performance
  
2. How does a viscous coupling in a four-wheel-drive system work?
  - A. By using a fluid that hardens with heat to couple the drive shafts
  - B. By mechanically locking the front and rear axles together
  - C. By using a chain to connect the front and rear differentials
  - D. By using gears to transfer torque from one axle to another
  
3. What is the significance of the gear ratios in the differentials of a four-wheel-drive vehicle?
  - A. They are the same for both front and rear differentials
  - B. The front differential has a slightly higher ratio than the rear
  - C. The rear differential has a slightly higher ratio than the front
  - D. Gear ratios are not significant in four-wheel-drive vehicles
  
4. For a vehicle equipped with part-time four-wheel drive, what is the recommended driving condition when in four-wheel drive?
  - A. Only on slippery surfaces
  - B. On all types of surfaces
  - C. Only on dry pavement
  - D. Only when towing heavy loads
  
5. What is a common feature of full-time four-wheel-drive vehicles?
  - A. They do not have a center differential
  - B. They use a center differential in the transfer case
  - C. They cannot be used on dry pavement
  - D. They always use locking front hubs
  
6. What is the typical cause of front wheel skip, hop, and shake while cornering and accelerating at the same time?
  - A. A fault in the transfer case
  - B. Normal behavior if the vehicle is equipped with Cardan U-joints at the front wheels
  - C. Worn out tires
  - D. Misalignment of the wheels
  
7. What components are added to a rear-wheel drive vehicle to make a four-wheel drive vehicle?
  - A. A transfer case
  - B. A front drive axle and differential
  - C. Either A or B
  - D. Both A and B

8. What is depicted in FIGURE 126–10 of the chapter?

- A. A diagram of a four-wheel-drive system
- B. A schematic of a viscous coupling unit
- C. A layout of a vehicle's differential system
- D. An exploded view of a New Venture 241 transfer case

9. What is the result of the case study mentioned in the document regarding differential fluid replacement?

- A. The vehicle's performance was unaffected by the fluid change
- B. The incorrect fluid caused permanent damage to the differential
- C. The vehicle required a new differential after the incorrect fluid was used
- D. The use of the correct viscosity fluid restored proper vehicle performance

10. What is the meaning of the term "4x4" as used in the chapter?

- A. A four-wheeled vehicle with engine torque applied to all four wheels
- B. A vehicle with four differentials
- C. A four-wheeled vehicle with four-speed transmission
- D. A vehicle that can drive in all four seasons

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Chapter 126  
Multiple Choice Quiz B  
Answer Key

1. A
2. A
3. C
4. A
5. B
6. B
7. D
8. D
9. D
10. A