

Name _____

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

- 1) Technician A says the gears in a planetary gearset are in constant mesh. Technician B says a planetary gearset has a ring gear and pinion gears. Which technician is correct? 1) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 2) Technician A says that one planetary gear set can provide gear reduction, overdrive, and reverse. Technician B says that most transmissions today use compound (multiple) planetary gear sets. Which technician is correct? 2) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 3) Automatic transaxles include a _____ in addition to the planetary gear sets. 3) _____
A) transversal
B) dry clutch
C) differential assembly
D) spur gear
- 4) During which of these conditions is the torque converter clutch engaged? 4) _____
A) At speeds over 25 MPH
B) During acceleration from a stop
C) During acceleration at highway speeds
D) None of these
- 5) Using a torque converter smaller than stock size could result in _____. 5) _____
A) Slower than normal acceleration
B) Faster than normal acceleration
C) Reduced fuel economy
D) Both B and C
- 6) A CVT changes gear ratios by changing the diameter of the _____. 6) _____
A) torque converter
B) planetary gear set ring gear
C) drive and driven pulleys
D) output gear
- 7) The torque converter clutch increases efficiency by _____. 7) _____
A) allowing quicker starts in first gear
B) eliminating converter slippage
C) disconnecting the torque converter from the engine at a stop
D) none of these

- 8) Technician A says automatic transmissions can shift gears without requiring an interruption of powerflow. Technician B says automatic transmissions use synchronizers instead of planetary gearsets. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 9) Two technicians are discussing automatic transmissions/transaxles. Technician A says that it is normal for a vehicle to move slightly when the gear selector is in the "drive" position with the brakes released. Technician B says that the stator may be defective if the vehicle moves while in gear when the engine is at idle speed. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) What is the purpose and function of a lock-up part of the torque converter? 10) _____
- A) Improves fuel economy by eliminating slippage
 - B) Increases vehicle performance by allowing more torque multiplication
 - C) Allows the transmission/transaxle to shift faster
 - D) Increases fluid pressure in the transmission/transaxle

Answer Key

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1) C

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2) C

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3) C

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4) A

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5) D

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6) C

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7) B

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8) A

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9) A

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10) A

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