

Name _____

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

- 1) Which compound planetary gearset is commonly used in six speed transmissions? 1) _____
A) Simple gearset
B) Simpson gearset
C) Ravigneaux gearset
D) Lapelletier gearset

- 2) Which compound gearset uses a planetary gearset in front of a Ravigneaux gearset? 2) _____
A) Simple gearset
B) Simpson gearset
C) Ravigneaux gearset
D) Lapelletier gearset

- 3) Technician A says that converter speed ratio is a measure of coupling efficiency. Technician B says that converter speed ratio is calculated by dividing the speed of the turbine rotation by the speed of the pump rotation. Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 4) Even the most efficient torque converter has a slippage rate of _____. 4) _____
A) 0% to 2%
B) 3% to 6%
C) 10% to 15%
D) 8% to 12%

- 5) One clutch in a dual clutch transmission is used for 1st, 2nd, and 3rd gears and the other clutch is used for 4th, 5th, and 6th gears. 5) _____
A) True
B) False

- 6) Torque converters use a stator as a _____. 6) _____
A) Drive member
B) Reaction member
C) Driven member
D) Pump regulator

- 7) Technician A says that a held member is also called the reaction member. Technician B says that if any two elements are locked together then the output will be 1:1. Which technician is correct? 7) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

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) The torque converter clutch increases efficiency by _____. 9) _____

- 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

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) D

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2) D

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3) C

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4) D

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5) B

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6) B

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7) C

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8) A

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9) B

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10) A

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