

Name _____

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

- 1) The Ravigneaux gear train can be arranged so it produces _____ forward speeds. 1) _____
A) Only 2
B) Only 2 or 3
C) 2, 3, or 4, depending on design
D) 5
- 2) One feature of the Ford 6F50 and GM 6T70 transmission is _____. 2) _____
A) Clutch-to-clutch shifting
B) Four planetary gear sets
C) A loose-coupled torque converter
D) None of these
- 3) Technician A says that the gears in a planetary gear set are in constant mesh. Technician B says that a planetary gear set has a ring gear and hypoid gears. Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 4) Driving two members of a planetary gear set while there is no reaction member will result in a(an) _____ ratio. 4) _____
A) Overdrive
B) Reduction
C) 1:1
D) Reverse, reduction
- 5) A Simpson gear train consists of _____. 5) _____
A) Two sun gears and one planet carrier and one ring gear
B) One sun gear and two planet carriers and one ring gear
C) One sun gear with two carriers with planet gears and two ring gears
D) Two sun gears with two planet carriers and one ring gear
- 6) Technician A says that if the sun gear is driven while the ring gear is held, the planet gears will walk around the inside of the ring gear. Technician B says that if the sun gear is driven while the carrier is held, the ring gear is forced to rotate at a slower speed than the sun gear. Which technician is correct? 6) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 7) In a three-speed Simpson gear train, if the sun gear is stationary, the transmission is in _____. 7) _____
- A) First gear
 - B) Third gear
 - C) Second gear
 - D) Reverse
- 8) A LePelletier gear set is a combination of a simple planetary set and a _____ gear set. 8) _____
- A) Simpson
 - B) Ravigneaux
 - C) Spur
 - D) Reverse
- 9) Technician A says that driving the ring gear while the sun gear is held will make the planet gears walk around the sun gear. Technician B says that driving the ring gear while holding the sun gear will force the carrier to rotate at a reduction speed. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) Technician A says that when a simple planetary gear set is in reverse, the carrier is held stationary. Technician B says the ring gear is the output member in reverse. 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) A

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3) A

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4) C

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5) C

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6) C

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7) C

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8) B

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9) C

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10) C

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