

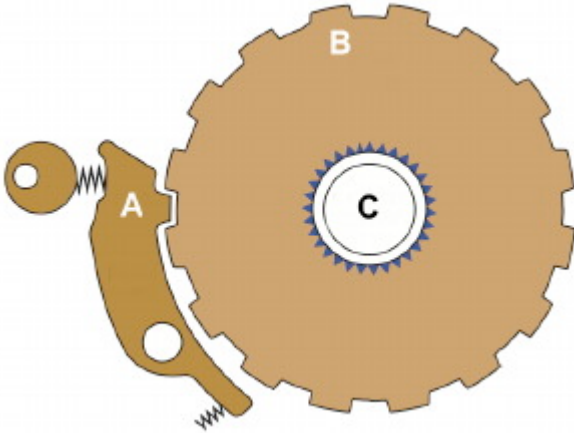
Name _____

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

- 1) A Ravigneaux gear set _____. 1) _____
- A) Uses two carriers that have three sets of planet gears with one sun gear and one ring gear
 - B) Combines one carrier that has two sets of planet gears with two sun gears, and one ring gear
 - C) Combines one carrier that has one set of planet gears with two sun gears, and two ring gears
 - D) Uses two carriers that have two sets of planet gears with two sun gears, and two ring gears
- 2) When are the planet gears fully meshed with the sun gear and ring gear? 2) _____
- A) All the time
 - B) During torque multiplication
 - C) During gear reduction
 - D) When overdrive is occurring
- 3) A synchronous design _____. 3) _____
- A) Requires that a clutch or band be released before another clutch is applied
 - B) Allows an upshift that requires only the application of the next driving or reaction member
 - C) Uses a Simpson gear set only
 - D) Uses a Ravigneaux gear set only
- 4) 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? 4) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 5) In a six speed automatic transmission, sixth gear is usually a(an) _____ ratio. 5) _____
- A) One to one
 - B) The same as fifth gear, only quieter
 - C) Overdrive
 - D) Reduction

6) Which of these components is the parking pawl?

6) _____



- A) A
- B) B
- C) C
- D) None of these

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 Simpson gear train consists of _____.

8) _____

- 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

9) How many planet pinions are used in a planetary gear set?

9) _____

- A) Two
- B) Three
- C) Four
- D) Three, four, or five

10) If the ring gear is driven while the sun gear is held, the planet gears will _____.

10) _____

- A) Rotate in the carrier
- B) Rotate as they walk around the sun gear
- C) Rotate with the carrier but not on their axis
- D) Be stationary in the carrier

Answer Key

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1) B

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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) A

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7) C

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8) C

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9) D

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10) B

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