

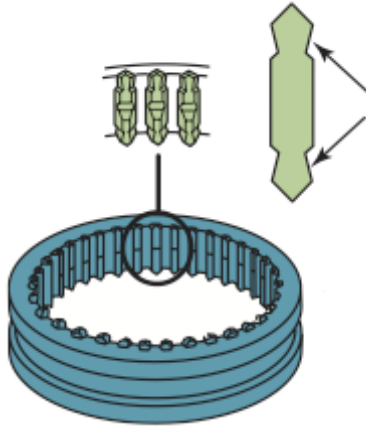
Name \_\_\_\_\_

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

- 1) A five-speed transmission is in second gear. Which is correct? 1) \_\_\_\_\_
  - A) The power flow is from the input shaft gear to the cluster gear then to the second speed gear on the main shaft assembly
  - B) The 1-2 synchronizer is moved so that the sleeve has engaged the clutching teeth of second gear
  - C) Both A and B
  - D) Neither A nor B
  
- 2) During a normal upshift, the synchronizer must \_\_\_\_\_. 2) \_\_\_\_\_
  - A) Speed up the main shaft assembly
  - B) Match the rpm of the speed gear to the main shaft rpm
  - C) Both A and B
  - D) Neither A nor B
  
- 3) The idler gear is used for which gear? 3) \_\_\_\_\_
  - A) First
  - B) Second
  - C) Third
  - D) Reverse
  
- 4) An interlock system is used in a transmission to prevent \_\_\_\_\_. 4) \_\_\_\_\_
  - A) More than one shift fork moving at the same time
  - B) A shift fork from engaging the wrong synchronizer hub
  - C) Shifting from 1st to 2nd gear quickly
  - D) Overheating
  
- 5) What is designed into a transmission so that it can handle more engine torque? 5) \_\_\_\_\_
  - A) Longer length
  - B) Input and output shafts are larger
  - C) The case is made from cast steel
  - D) Needle bearings are used in all locations
  
- 6) The detent mechanism inside a transmission is used to \_\_\_\_\_. 6) \_\_\_\_\_
  - A) Locate the synchronizer sleeves in the correct position
  - B) Prevent more than one shift fork from moving at one time
  - C) Hold a gear into mesh
  - D) All of these

7) Why is this spline shaped in this way (arrows)?

7) \_\_\_\_\_



- A) To reduce noise
- B) Prevents jumping out of gear
- C) Creates a "click" sound when shifting
- D) Increases torque values

8) When one synchronizer is shifted into gear, the movement of the other shifter forks is blocked by the \_\_\_\_\_.

8) \_\_\_\_\_

- A) Detents
- B) Interlocks
- C) Both A and B
- D) Neither A nor B

9) Most manual transmissions use a case made from \_\_\_\_\_.

9) \_\_\_\_\_

- A) Cast steel
- B) Cast aluminum
- C) Pressed steel
- D) Cast iron

10) What is the benefit of an overdrive gear ratio in a transmission?

10) \_\_\_\_\_

- A) Lowers engine speed to obtain better fuel mileage
- B) Lowers driveshaft speed
- C) Allows the uses of fewer gear sets in the transmission
- D) None of these

## Answer Key

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1) C

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2) B

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3) D

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4) A

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5) B

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6) A

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7) B

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8) B

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9) B

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10) A

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