

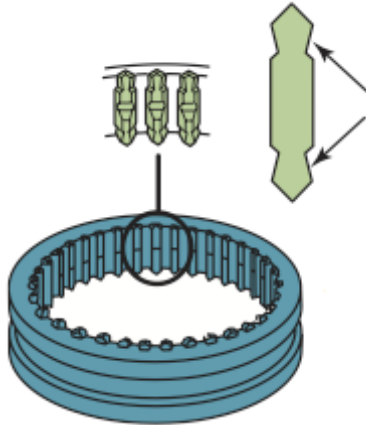
Name \_\_\_\_\_

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

- 1) What is the benefit of an overdrive gear ratio in a transmission? 1) \_\_\_\_\_
  - 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
  
- 2) The detent mechanism inside a transmission is used to \_\_\_\_\_. 2) \_\_\_\_\_
  - 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
  
- 3) What is designed into a transmission so that it can handle more engine torque? 3) \_\_\_\_\_
  - 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
  
- 4) Which gear is most likely to use a spur gear? 4) \_\_\_\_\_
  - A) First
  - B) Second
  - C) Fourth
  - D) Reverse
  
- 5) A five-speed transmission is in third gear. Which is correct? 5) \_\_\_\_\_
  - A) The 1-2 synchronizer is centered
  - B) The 3-4 synchronizer is moved to engage third gear
  - C) Both A and B
  - D) Neither A nor B
  
- 6) During a normal upshift, the synchronizer must \_\_\_\_\_. 6) \_\_\_\_\_
  - 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

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) The lubricant used in a manual transmission is \_\_\_\_\_.

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

- A) Gear oil
- B) ATF
- C) Manual transmission fluid
- D) Any of the above depending on the make and model of vehicle

9) Which of these is NOT a function of the transmission lubrication system?

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

- A) Reduces friction
- B) Removes heat from the gears
- C) Lubricates the throwout bearing
- D) Reduces corrosion

10) The type of bearings used in a manual transmission is \_\_\_\_\_.

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

- A) Needle bearing
- B) Ball bearing
- C) Tapered roller bearing
- D) Any of these

## Answer Key

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1) A

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2) A

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3) B

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4) D

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5) C

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6) B

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7) B

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8) D

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9) C

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10) D

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