

Name \_\_\_\_\_

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

- 1) When adapting a conventional automatic transmission for use in a hybrid vehicle, what component is usually needed? 1) \_\_\_\_\_
  - A) Larger U-joints
  - B) An auxiliary transmission pump
  - C) Electronic shielding for the clutches
  - D) Increased wire gauge size for the PRNDL switch
  
- 2) In a Honda Accord (2005 to 2007) transmission how are the different gear ratios selected? 2) \_\_\_\_\_
  - A) By applying any of six wet clutch assemblies
  - B) With the use of two planetary gears sets connected with a clutch
  - C) By using stacked one-way clutches
  - D) A push button on the steering wheel
  
- 3) Where are the two electric motors located in a General Motors two-mode hybrid vehicle? 3) \_\_\_\_\_
  - A) One in the transmission and one in front of the torque converter
  - B) Both inside the transmission
  - C) One in the transmission and one in the rear axle
  - D) One in the front axle and one in the rear axle
  
- 4) All of the following statements concerning power-split transaxles are true EXCEPT \_\_\_\_\_. 4) \_\_\_\_\_
  - A) The ICE and motor-generators are all connected through a planetary gear set
  - B) One of the planetary members must be held to make the power-split transaxle work
  - C) The power-split transaxle can operate in electric mode only
  - D) Power-split transaxle systems do not use a separate starter motor
  
- 5) In the General Motors 2-mode transmission what is mode 1 used for? 5) \_\_\_\_\_
  - A) Move the vehicle from standstill to 2nd gear
  - B) Only used in reverse
  - C) Mode one operates in cold weather
  - D) None of these
  
- 6) What is meant by "range anxiety"? 6) \_\_\_\_\_
  - A) When the driver notices that the ICE has stopped during a stop
  - B) When a driver is driving an electric only vehicle
  - C) A passenger who notices that the engine starts and then stops when riding in a hybrid electric vehicle
  - D) Any of the above
  
- 7) In a Toyota power-split hybrid, what type of transmission is used? 7) \_\_\_\_\_
  - A) Single planetary gear set
  - B) CVT
  - C) A manual transmission transformed to function in a hybrid electric vehicle
  - D) A conventional transaxle converted for hybrid use

- 8) Technician A says that power-split transaxles use a torque converter. Technician B says that power-split transaxles use an electric transmission fluid pump. Which technician is correct? 8) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 9) In a GM two-mode hybrid electric vehicle, when can the vehicle be powered by electric power alone? 9) \_\_\_\_\_
- A) During the first mode
  - B) During the second mode
  - C) During either the first or second mode
  - D) During heavy load conditions regardless of mode
- 10) In a parallel-hybrid vehicle which of these can be used to drive the drive wheels? 10) \_\_\_\_\_
- A) Gas engine only
  - B) Electric motor only
  - C) Both gas engine and electric motor
  - D) A small engine-driven hydraulic pump

## Answer Key

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1) B

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2) A

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3) B

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4) B

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5) A

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6) B

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7) A

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8) D

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9) A

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10) C

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