

Name _____

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

- 1) What is happening in the positive split transaxle drive mode? 1) _____
 - A) Power from the ICE is being used to propel the vehicle
 - B) Power from the ICE is being used to recharge the battery
 - C) Both A and B are correct
 - D) Neither A nor B are correct

- 2) Technician A says that the Mariner/Escape HEVs can be propelled by the electric motor only. Technician B says that the Mariner/Escape HEVs can be propelled by the internal combustion engine only. Which technician is correct? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 3) How often should the valve lash adjustment be performed on the 2.3 litre ICE in the Mariner and Escape HEVs? 3) _____
 - A) 30,000 miles
 - B) 75,000 miles
 - C) 90,000 miles
 - D) None of these

- 4) Where is the 12 volt battery located on a Ford/Mercury hybrid vehicle? 4) _____
 - A) In the trunk
 - B) Under the hood
 - C) Under the rear seat cushion
 - D) Behind the gas engine

- 5) Which eCVT mode is used in highway driving situations where the ICE must be running and the high voltage battery pack does not need to be charged? 5) _____
 - A) Negative-split mode
 - B) Positive-split mode
 - C) Both A and B
 - D) Neither A nor B

- 6) Technician A says the Escape/Mariner HEV offers a 220 volt AC electrical outlet for convenience. Technician B says the NiMH battery for the Escape/Mariner is a 330 volt design. Which technician is correct? 6) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician

- 7) The modified Atkinson combustion cycle in Ford/Mercury hybrid electric vehicles provides _____ 7) _____
- A) A low compression ratio at higher RPM
 - B) A high compression ratio at lower RPM
 - C) A constant compression ratio throughout the RPM range
 - D) None of these
- 8) The DC to DC converter is located _____ and is cooled by _____. 8) _____
- A) Under the hood; a liquid cooling system
 - B) Under the rear floor; a liquid cooling system
 - C) Under the rear floor; air cooled
 - D) Under the hood; air cooled
- 9) Which of the following is true of the ICE in the Ford/ Mercury SUV HEV? 9) _____
- A) It is an aluminum DOHC 4-cylinder engine
 - B) It uses an Atkinson cycle
 - C) It uses an active engine mount
 - D) All of these are correct
- 10) What is the purpose of the fiberglass hook kept at Ford dealerships as a special service tool? 10) _____
- A) A safety device to rescue a technician who is being electrocuted
 - B) A safety device to remotely disconnect the high voltage cables from the DC to DC converter
 - C) A measuring tool used to gauge the safe distance for a buffer zone around a HEV in service
 - D) None of these is correct.

Answer Key

Testname: HYBRID4_15A

1) C

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2) A

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3) D

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4) A

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5) A

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6) B

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7) D

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8) A

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9) D

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10) A

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