

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What are the four modes of operation of a typical hybrid vehicle?

2) What type of hybrid electrical vehicle is a Toyota Prius and Ford Escape hybrid?

3) What are the advantages and disadvantages of mild, medium, and full hybrid vehicles?

4) What actions are needed to disable the high-voltage (HV) circuit?

Answer Key

Testname: INTRO_SHORT34

1) The four modes a typical hybrid electric vehicle includes:

1. Idle stop
2. Regenerative braking
3. Power assist
4. Motoring mode (strong hybrid only)

Page Ref: 304

2) These hybrid electric vehicles are full (strong) hybrids and are capable of propelling the vehicle on battery power alone for short distances.

Page Ref: 305

3) Mild and medium hybrids are less complex and cost less than full hybrids. Full hybrids are capable of providing better fuel economy improvements compared to conventional vehicles of the same size but the cost is higher.

Page Ref: 305

4) The actions needed to disable the high-voltage circuits vary according to the exact make and model of vehicle, but usually include:

- a. Turn the ignition off and remove the key
- b. Disconnect the 12-volt auxiliary battery
- c. Remove high-voltage control fuse or high-voltage service plug

Page Ref: 306