**Activity One**: Read the text then decide whether the statements are true or false.

Rewrite the false statements if necessary. **(2 points)**

All kinds of cars produce electricity to work. ( T )

Under normal conditions, a gasoline car loses a lot of energy when the engine is running. ( T )

In normal cars, heat is stored. (F )

***Every car generates electricity to work, but most of that energy is wasted. The hybrid car stores that energy to be used later.***

**Activity Two**: Read the text and answer the following questions **(3 points)**

1. What are the advantages of hybrid cars?

***Hybrid cars are often able to use motors with a smaller displacement than a conventional car; when the vehicle needs extra power the electric motor activates and helps drive the car. The hybrid system harvests the power that is usually lost and stores it in the form of electricity. The batteries in a hybrid act like an extra gas tank that is able to fill and refill itself. Hybrids are also able to save power other ways by using systems like regenerative braking.***

2. What are the disadvantages of hybrid cars? ”

***Once the power in the batteries has discharged, the car can’t be driven until they have been refilled. The recharging process can take hours, and that’s inconvenient for long trips***.

3. The hybrid’s electric motor can act as an “assistant” and can function separately. Explain.

***When the vehicle needs extra power the electric motor activates and helps drive the car.***

**Activity Three**: **(2 points)**

1- Find in the text words that are closest in meaning to the following ones:

a- gather (§ 1) = **garner** b- much (§ 2) = **a good deal**

c- additional (§ 2) = **extra** d- disadvantages (§ 3) = **downsides**

**Section Two: Language study**

**Activity One:** Put the verbs in the correct tense (present simple or present progressive)**(5 points)**

1. Ms Davis **teaches** Maths.
2. Classes **start** at nine o'clock.
3. Alec **is taking/ takes** an HND course.
4. He **is studying** at Telford College this year
5. On Tuesdays, he **studies** in the library.
6. He **wants** to be a Civil Engineer.
7. He **is working** on a project about a new bridge.
8. A lot of local people **do not like** the proposal.
9. They **think** it will increase the amount of traffic near their homes.

10. The old bridge **carries** ten times the traffic it was designed to carry.

**Activity Two:** Insert the required word or expression*: MAKE IT POSSIBLE • SO THAT • PURPOSE • AIMS • DESIGNED • IN ORDER TO.* **(3 points)**

1. It is a new generation of artificial organs specifically **designed** to be implanted in patients with diabetes.

2. The software will **make it possible** to detect the virus before any harm is done.

3. Cadmium can be used **in order to** lower the melting point of alloys.

4. The sensors are orientated **so that** cosmic y-rays will be detected.

5. It should be pointed out that quantum mechanics was originally introduced for the **purpose** of explaining chemical facts.

6. Biochemistry, like other sciences, **aims** at quantifying or measuring results.

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