**Практическое задание 1 уровня «Перевод профессионального текста (сообщения)»**

1. **Переведите текст со словарем**

**What is a Car Battery?**

A car battery is a physical reserve of energy within the car system. The battery is usually charged by an [alternator](https://www.wisegeek.com/what-is-an-alternator.htm) — a device that converts the mechanical energy from the engine into electrical energy. This energy is then used to prompt reactions within the [electrolyte](https://www.wisegeek.com/what-is-an-electrolyte.htm) of the battery, which is most commonly composed of lead oxide plates submerged in a mixture of sulfuric acid and water. When a battery is in use, the sulfuric acid reacts with the lead oxide plates, to form lead sulfate. Recharging the battery involves reversing this reaction, which allows it to store energy chemically.

The battery in a car is used to power the vehicle during ignition and provide energy for the lighting system. In gasoline engines, it is also used to ignite the fuel, so this type of engine cannot work without a battery. Diesel engines may work without batteries, if the initial electrical energy is provided at ignition. The battery is also used to provide traction energy for electric vehicles.

There are several types of car batteries available. The most common is the flooded type, which is basically an arrangement of lead plates immersed in sulfuric acid in a pseudo-open reservoir. This type requires regular topping up with distilled water to compensate for the water lost as [hydrogen](https://www.wisegeek.com/what-is-hydrogen.htm) and oxygen gases during the electrolysis process. A slight modification of this results in a different type of battery known as a sealed battery, which is basically a flooded battery which is sealed so that no water can be lost.

When storing sulfate batteries, it is important to ensure that they are always charged, preferably to the maximum. Discharged sulfate batteries tend to degrade by sulfating, which involves the formation of large lead-sulfate crystals in the batteries. This hinders the normal reverse reaction that defines recharging. The batteries should be stored in a cool place, as warm temperatures result in a higher rate of discharge and corrosion at the contact plates.

1. **Письменно ответьте на вопросы:**

***Review questions.***

1. Define a car battery.
2. What is an [alternator](https://www.wisegeek.com/what-is-an-alternator.htm)?
3. Can gasoline engines work without a battery?
4. What type of car batteries is the most common?
5. The battery should be stored in a cool place, shouldn’t it?