Инструкция выполнения задания: перевести текст и выполнить упражнения 1-2. Выполненные задания отправить на проверку на электронную почту преподавателю Королевой Александре Андреевне. Адрес электронной почты: [evseeva14alex@gmail.com](mailto:evseeva14alex@gmail.com). Задание предоставить либо в формате DOCX, DOC, RTF, либо прислать фотографию выполненного задания на бумажном носителе от руки.

**«Transmission. Appointment, general structure, principles of work. Purpose, general structure, principle of operation. Purpose and general differential devices»**

All that connects the engine to the drive wheels is the transmission of the car. The transmission in the car performs the following functions: transmits torque from the engine to the drive wheels; changes the magnitude and direction of the torque; redistributes the torque between the drive wheels.

Depending on the type of energy being converted, the following types of transmission are distinguished: mechanical, electric, hydrostatic, combined.

The clutch is designed for short-term disconnection of the engine from the transmission and their smooth connection when shifting gears, as well as protecting the transmission elements from overloads.

The gearbox serves to change the torque, speed and direction of movement of the car, as well as prolonged separation of the engine from the transmission.

The differential is designed to distribute torque between the drive wheels. It allows the semi-axes to rotate at different angular speeds, which is necessary when turning the car. Four-wheel drive transmission can have various designs. Together, they form all-wheel drive systems.

**Упражнение 1.** Вставить пропуски в словах

G\_arb\_x, tr\_nsm\_ss\_on, t\_pe, drive, sep\_rati\_n, ne\_ess\_ry, dif\_ere\_ti\_l, el\_ct\_ic, h\_dro\_tatic, f\_ncti\_ns, c\_mbined, prot\_ct\_ng.

**Упражнение 2.** Составить 5 вопросов к тексту.