**Задания к тексту Automation (1, 2, 3)**

**Exercise 1**

*Ответьте на следующие вопросы:*

1. How do you understand the term “[automation](https://lms.kgeu.ru/mod/page/view.php?id=50187)”?

I think the automation is the technical system that performs different tasks without human intervention.

1. What devices are used to perform various operations much faster or better than could be accomplished by humans?

These are such devices as automatic telephone switching equipment, automatic pilots, and automated guidance and control systems.

1. What main factors pushed the development of automated manufacture?

The division of labor, power transfer and the mechanization of the factory are the main factors.

1. How do you understand the term “division of labor”?

I think the division of labor is when everyone does only their own work.

1. What are the main results of the division of labor for society?

Products have become cheaper.

1. What were the main steps in the development of [automation](https://lms.kgeu.ru/mod/page/view.php?id=50187)?

The main steps in the development of automation are the division of labor and automation.

1. Why the development of power technology gave rise to the factory system of production?

Because all workers and machines had to be located near the power source.

1. How can you describe the transfer machine?

The transfer machine is a device used to move a work piece from one specialized machine tool to another, in such a manner as to properly position the work piece for the next machining operation.

1. What are the fields of industrial robots application nowadays?

These are the auto industry, aviation, astronautics and in other fields.

1. What was the initial goal of [automation](https://lms.kgeu.ru/mod/page/view.php?id=50187) in auto industry?

The goal was to make automobiles available to people who previously could not afford them.

**Exercise 2**

*Заполните пропуски недостающими по смыслу словами, используя текст:*

1. Manufacture system designed to extend the capacity of machines is called … *automation*.
2. Automated manufacture arose out of division of … *labor* and … *the mechanization* of the factory.
3. The division of labor is, the reduction of a manufacturing or service process into its smallest … *independent* steps.
4. Another step necessary in the development of [automation](https://lms.kgeu.ru/mod/page/view.php?id=50187) was … . *mechanization.*
5. As a result of the development of power transfer specialized machines were … *motorized* and their production efficiency was improved.
6. The development of …*power* technology also gave rise to the factory system of production.
7. The transfer machine is a device used to move a … *work piece* from one specialized machine tool to another.
8. Industrial robots were originally designed only to perform …*simple* tasks.
9. The goal of the … … *assembly-line* system was to make automobiles available to people who previously could not afford them.

**Exercise 3**

*Соответствуют ли данные предложения содержанию текста:*

1. [Automation](https://lms.kgeu.ru/mod/page/view.php?id=50187) is a system of manufacture designed to reduce the capacity of machines to perform certain tasks formerly done by humans. FALSE
2. In the fields of communications, aviation, and astronautics [automation](https://lms.kgeu.ru/mod/page/view.php?id=50187) is used in a very limited scale. FALSE
3. Automated control systems are used to perform various operations much faster or better than could be done by humans. TRUE
4. Power transfer and the mechanization of the factory were the main obstacles in the development of [automation](https://lms.kgeu.ru/mod/page/view.php?id=50187). FALSE
5. The division of labor developed in the first half of the 19th century and was first discussed by the French economist Adam Smith. FALSE
6. Mechanization was the next step necessary in the development of [automation](https://lms.kgeu.ru/mod/page/view.php?id=50187). TRUE
7. The development of power technology gave rise to the factory system of production. TRUE
8. The transfer machine is a device used to move workers from one place to another. FALSE
9. In the 1920s the auto industry combined [automation](https://lms.kgeu.ru/mod/page/view.php?id=50187) concepts into an integrated system of production. TRUE
10. The goal of the assembly-line system in auto industry was to make automobiles more expensive and luxurious. FALSE