**2)**

1. Manufacture system designed to extend the capacity of machines is called Automation .
2. Automated manufacture arose out of division of labor, power and the mechanization of the factory.
3. The division of labor is the reduction of a manufacturing or service process into it’s smallest independent steps.
4. Another step necessary in the development of automation 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 from piece 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.

**3)**

1. false
2. false
3. true
4. false
5. false
6. true
7. true
8. false
9. true
10. false

**4)**

1. Автоматизированная производственная линия состоит из ряда рабочих станций, соединенных системой передачи для перемещения деталей между станциями.
2. Современные автоматизированные линии управляются программируемыми логическими контроллерами.
3. Автоматизированные производственные линии используются во многих отраслях промышленности, в первую очередь в автомобильной.
4. Если деталь производится серийно, автоматизированная линия передачи часто является наиболее экономичным методом производства.
5. Линии передачи датируются примерно 1924 годом.
6. Операции обработки на прессе включают вырезание и формовку деталей из листового металла.
7. Автоматическая система предназначена для выполнения некоторых полезных действий, и это действие требует мощности.

**5)**

1) Electricity is the most widely used source of energy in modern automated systems.

2) Automated systems perform basically two types of operations: 1) processing; 2) moving and positioning.

3) Automation is a production system designed to increase the productivity of machines and mechanisms.

4) Communications, aviation, and space are the industries that make the most extensive use of automation.

5) Division of labor, energy transfer, and mechanization of production accelerated the development of automation.

6) The next step necessary in the development of automation was mechanization.

7) The Development of energy transfer technology, contributed to the development of automation.

8) Industrial robots were originally designed to perform simple tasks in dangerous environments.