**ДЗ 7**

ex. 1 p. 75

1) DNA computer

2) Quantum computer

3) Nanotechnology

4) Nanorobots

5) Nanocomputer

ex. 2 p. 75

1) immersive Internet?

2) mobile TV

3) embedded

4) user interface

5) RFID

6) intelligent robot?

ex.3 p.75

1 - d

2 - a

3 - e

4 - c

5 – b

Unit 11

№1

• artificial intelligence — искусственный интеллект

• nanomedicine — наномедицина

• artificial neural network — искусственные нейронные сети

• nanotechnology — нанотехнологии

• biometrics — биометрия

• nanotransistors — нанотранзисторы

• machine learning — машинное обучение

• pervasive computing — повсеместные вычисления (человек окружён вычислительными устройствами, интегрированными в повседневные вещи)

• nanobots — нанороботы

• robotics — робототехника

• nanocomputers — нанокомпьютеры

• smart home appliances — умная бытовая техника

• nanomaterials — наноматериалы

• ubiquitous devices — вездесущее устройство

№2

1. Artificial neural network is computing system inspired by the biological neural network that make up animal brains. It is based on a collection of connected units, or nodes, called artificial neurons, which simulate the neurons in a biological brain.

2. On a technical level, one of the main challenges is the amount of time it takes to train networks, which can require a considerable amount of computing power for more complex tasks. The biggest issue, however, is that neural networks are “black boxes,” in which the user feeds in data and receives answers. They can fine tune the answers, but they don’t have access to the exact decision-making process.

№3

1. machine learning

2. patterns

3. artificial neurons

4. data

5. amount of time