**The Future of Computer Technology – ICS3U**

Research the internet to answer the following questions.

1. Describe how some computer manufacturing companies are reducing the negative environmental impact of their computers.

Biodegradable computer parts.

Recycle

1. What is the **Open Intellectual Property Movement**?

The sharing idea/info with others working on the same thing.

1. What is a positive and negative feature of this movement

Can speed up the process of solving a problem. But you won’t get full credit for completion.

+ Free software

- Not the greatest quality

1. What is the one major advantage of **Quantum Computing** in comparison to the computing technologies of today

Operations can be finished with more efficiency and faster.

1. What is the basic unit of memory in a Quantum Computer?

Qubit or quantum bit

1. What is **Nanotechnology**?

the branch of technology that deals with dimensions and tolerances of less than 100 nanometers, especially the manipulation of individual atoms and molecules.

Using atoms and designing technology on a molecular scale.

1. How does **Phototonics** help in the transfer of data and the speed of the internet

Involves the movement of light

1. What is **Cloud Computing**?

the practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer.

1. Describe how **a Natural User Interface** would improve the way we use a computer.

To adapt user’s needs

1. What is **Machine Language and Intelligent Systems**? What is a concern of this?

a computer programming language consisting of binary or hexadecimal instructions which a computer can respond to directly. Intelligent systems are technologically advanced machines that perceive and respond to the world around them.

Concern = threat to safety, privacy, and security.

A program that learns by itself

1. How might **Bioinfomatics** lead to positive change in the medical field?

Using software to create data

Predict functions of new discovered genes

1. Give examples of where a **Medical Robot** is being used today.

Telepresence

Surgical Assistants

Rehabilitation Robots

Medical Transportation Robots

Sanitation and Disinfection Robots

Robotic Prescription Dispensing Systems

Test Review:

1. Software development life cycle: ptd table, algos : Ipo chart, flowchart, psudocode

2. careers, crimes, etc

3.