OCR Computer Science A Level
1.5.2 Moral and Ethical Issues

Flashcards

Give two effects on businesses of computers becoming part of the workforce.

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- Higher productivity
- Lower unit costs
- Lower costs of renting
- Lower labour costs

Give two uses of automated decision-making.

Give two uses of automated decision-making.

- Targeted feeds (social media)
- Application processes (jobs, mortgages, loans)
- Power distribution systems
- Driverless cars
- Stock trading
- Plant automation systems

Define artificial intelligence.

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The ability of a computer to replicate human intelligence, cognitive ability and grasp abstract concepts.

Describe how expert systems work.

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Expert systems consist of a knowledge base made up of a set of facts and rules. This is used to build an inference engine which is interrogated to find diagnoses.

Give two applications of AI.

Give two applications of AI.

- Neural networks

- Expert systems

- Voice recognition

State two negative environmental effects of computers.

State two negative environmental effects of computers.

- Toxic e-waste contaminating water.
- E-waste in third world countries.
- Greenhouse gases from greater electricity consumption.
- Reduced biodiversity
- Impact of climate change on future generation.

Give two ways in which technology can be used to protect the environment.

Give two ways in which technology can be used to protect the environment.

- Smart home systems (sensors)

- Sleep and Stand-by features on devices

- Smart engine designs

Define censorship.

Define censorship.

The act of suppressing the content that people are able to view, publish and access.

What is the Free Internet?

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The idea of an Internet where nothing is filtered at all, in line with the principle of freedom of speech.

How is censorship used within schools?

How is censorship used within schools?

Pupils may be prevented from accessing unsuitable material. May be used to maintain high productivity and prevent distractions.

Give arguments in favour of surveillance systems.

Give arguments in favour of surveillance systems.

Useful for social security purposes and detecting crime.

Needed to trace and punish criminal activity.

What is the name given to the process of analysing large data sets to uncover hidden trends?

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Data mining

Name three things web designers must take into account when designing a website.

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Colour paradigms, layout, character set.