Name: Class:

Task 1

A growing number of governments and public sector organisations are adopting artificial intelligence tools and techniques to assist with their activities.

Look at the following website:

<https://www.nesta.org.uk/blog/10-principles-for-public-sector-use-of-algorithmic-decision-making/>

a) Give **two** examples of algorithms used in decision-making.

b) Look at the following website:

 <https://www.wired.com/story/what-does-a-fair-algorithm-look-like/>

 Give **two** examples of problems that can arise with algorithmic decision making software.

Task 2

a) Look up the following website:

 <https://www.diffen.com/difference/Ethics_vs_Morals>

 What is the difference between **ethics** and **morals**?

b) Describe the possible implications to Facebook and wider society of the illegal harvesting and use of personal data in 2016.

Task 3

YouTube is a video streaming site that allows users to upload their videos for free. The site places few restrictions on the type of video that can be uploaded. Users can play videos for free or with a paid subscription. The majority of users use the free version which gives advertising before, during and after the videos. The site also collects data about users and which videos they watch. It is possible for people to ‘like’ or ‘dislike’ videos and also comment beneath them.

Complete the following table to show **three** moral or ethical issues that this site and other video streaming sites create. Also write what measures are in place or could be put in place to prevent these issues and the difficulties in implementing these measures. An example has been given.

|  |  |  |
| --- | --- | --- |
| **Moral or ethical issue of YouTube** | **Measures to prevent the issue** | **Difficulties implementing the measures** |
| Users can post abusive comments that appear prior to any moderation taking place | Users need to register an account and be logged in before they can post a comment | Users can create fake accounts to mask their real identity |
| Moderation of content is not fast enough for removal before many people have seen the video |  |  |
| Video may be unsuitable for certain age groups |  |  |
|  |  |  |

Task 4

In 2006 when the UK gambling laws were updated, the Cuture Secretary, Tessa Jowell, said, “Gambling is now a diverse, vibrant and innovative industry and a popular leisure activity enjoyed in many forms by millions of people. The law needs to reflect that."

The law seeks to balance protection for children and vulnerable adults with the needs of the industry. It is an offence to provide gambling facilities without appropriate permission. Those under 18 are not allowed to gamble.

Income from UK gamblers for online gambling in 2017 was £1.8 billion.

Many people can become addicted to gambling online. The following story is from

<https://www.gamblingwatchuk.org/real-life-stories/83-life-stories/102-real-life-gambling-story-number-two-john>

“You don’t even see the money when you gamble online. You use your debit or credit card, and before you know what is happening you are placing higher and higher stakes and losing so much money. My gambling online started to escalate so that I was eventually losing thousands of pounds each month. The video poker games were the worst for me – I just spent more and more money and time on them.

“These huge losses made me feel sick to my stomach. The more I lost, the more I wanted to win back what I’d lost the next day. I did have some wins, but they never compensated for what I’d lost. At this stage I just couldn’t tell my wife what was going on. It was all a secret. She trusted me completely.”

The trust of John’s wife was to be tested to its limits, as he took out loans, applied for new credit cards and cashed in savings.

a) Discuss the moral and ethical factors involved in the use of IT to operate, promote and use online gambling sites and the implications for individuals, organisations and wider society.

b) Discuss what can be done to alleviate the problem of gambling addiction.

Task 5

The BCS Code of Good Practice is a 36-page document that gives guidance under the following headings:

1. Maintain your technical competence
2. Adhere to regulations
3. Act professionally as a specialist
4. Use appropriate methods and tools
5. Manage your workload efficiently
6. Participate maturely
7. Respect the interests of your customers
8. Promote good practices within the organisation
9. Represent the profession to the Public

It then goes on to give advice on:

1. Key IT Practices
2. Practices Specific to Education and Research Functions
3. Practices Specific to Business Functions

a) Look up the BCS Code of Good Practice at <https://www.bcs.org/upload/pdf/cop.pdf>

b) Choose one of the headings to research.

c) Make notes on the topic. Be prepared to explain the topic to the class in your own words. What advice is given regarding how an employee might need to act? What impact might this have on the business?