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| **1.5 Legal, moral, cultural and ethical issues** | | | | |
| Topic Area | Sub Topic | How I feel | | |
|  | | Red | Amber | Green |
| 1.5.1 Computing related legislation | The Data Protection Act 1998. |  |  |  |
| Your notes | | |
| 1.5.1 Computing related legislation | The Computer Misuse Act 1990 |  |  |  |
| Your notes | | |
| 1.5.1 Computing related legislation | The Copyright Design and Patents Act 1988 |  |  |  |
| Your notes | | |
| 1.5.1 Computing related legislation | The Regulation of Investigatory Powers Act 2000 |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Computers in the workforce |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Automated decision making |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Artificial intelligence |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Environmental effects |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Censorship and the Internet |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Monitor behaviour |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Analyse personal information |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Piracy and offensive communications |  |  |  |
| Your notes | | |
| 1.5.2 Moral and ethical Issues | The individual moral, social, ethical and cultural opportunities and risks of digital technology:   * Layout, colour paradigms and character sets |  |  |  |
| Your notes | | |

Exam Questions

1, Do you think Edward Snowden was right to reveal the secret documents to which he had access, being legally forbidden to do so under the US Espionage Act 1 917? Justify your answer.

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2, The FBI and NSA have been protesting about losing surveillance capabilities-through greater encryption of the Internet-since the 1990s, In China, the manufacture, use, sale, import, or export of any item containing encryption without prior government approval may lead to administrative fines, the seizure of equipment, confiscation of illegal gains, and even criminal prosecution,

Give arguments for and against a policy of making it illegal for individuals and organisations to use strong encryption in their online communications.

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3, The Oata Protection Act 1998 sets out eight principles for the protection of privacy in data collection, handling and distribution. Name two of these principles and explain how each serves to protect privacy?

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4, What Act provides intellectual property protection for software? What actions are illegal under this Act?

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5. Some of the jobs likely to disappear over the next decade owing to computerisation include manufacturing jobs, clerical jobs and even service jobs, where people will be replaced by robots.

Give examples of other jobs which may be lost owing to computerisation. What will be the social effects of the job losses?

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6. Decisions are often made about us on the basis of algorithms of which we may be completely unaware. Car insurance premiums are calculated based largely on your age, experience, address, occupation and vehicle details. Health insurance premiums are affected by age, occupation, personal and parental medical histories. Are the algorithms that calculate these premiums fair?

Discuss how the algorithms used embed moral and/or cultural values. State with reasons who benefits from the decisions made by these algorithms and whether anyone is harmed.

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7. Computers have had a considerable impact on our environment. Describe an environmental problem to which the industry contributes and what measures individuals can take to help solve this problem.

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8. Networking sites frequently feature angry, violent or inaccurate content.

Should Facebook, Twitter, Ask.com and others take responsibility for content posted on their sites? What sort of content should be allowed? Would it be possible to develop software to facilitate such a task? Discuss. [5)

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9. "Honest and law-abiding citizens have nothing to fear from the distribution of their personal data."

Do you agree with this statement? Give reasons for your view and a reason why someone else might not agree with you.

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10. A University is debating whether to offer a course on writing malware such as viruses, worms and Trojan horses. Discuss the ethical issues involved in this decision, and whether or not you think they should run the course.

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