

1.5 LEGAL, MORAL & ETHICAL · 1.5.2

Moral, ethical & cultural issues

Original practice questions · 30 marks · about 45 minutes · spec 1.5.2

Instructions. Answer all questions. The number of marks is shown in brackets []. The extended question is marked for quality of written communication and a balanced, justified argument.

1 Total: 6 marks

(a) Describe **one positive and one negative** impact of automation on the workforce. [2]

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(b) Explain one ethical concern with allowing computers to make automated decisions about people. [2]

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(c) Describe one way computing harms the environment. [1]

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(d) State one way computing can benefit the environment. [1]

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2 Total: 6 marks

(a) Explain why an AI system making decisions about people can raise an ethical concern. [2]

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(b) Explain how digital piracy affects the people who create content. [2]

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(c) Give one argument **for** and one argument **against** the censorship of internet content. [2]

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A town council is considering replacing some human-driven buses with self-driving (autonomous) vehicles.

(a) Describe **two** potential benefits to society of this change. [2]

(b) Describe **two** ethical or moral concerns this change raises. [2]

(c) Explain one impact this change could have on the workforce. [2]

Artificial intelligence is being used more and more in everyday life — in healthcare, transport, recruitment and personal assistants.

Discuss to what extent you agree that the benefits of artificial intelligence to society outweigh the risks. Your answer should consider arguments for and against and reach a justified conclusion. **[12]**

END OF QUESTIONS