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Information technology in a global society
Higher level
Paper 3

Monday 9 November 2020 (morning)

Candidate session number

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1 hour 15 minutes

Instructions to candidates

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Read the case study carefully.
- Answer all questions.
- Answers must be written within the answer boxes provided.
- The maximum mark for this examination paper is **[30 marks]**.



Answer **all** questions. Answers must be written within the answer boxes provided.

Refer to the *The FaceToFace facial recognition application* case study **and** to your own related research in responding to the following questions.

1. (a) Identify **two** characteristics of software as a service (SaaS). [2]

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- (b) Outline **one** reason why facial recognition applications are preferred to other types of biometric software. [2]

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2. *FaceToFace* has been informed by their clients that their facial recognition application does not always correctly identify them.

Explain **two** reasons why this might be the case.

[6]

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08EP03

Turn over

- 3. Sandra wants to create an ethical framework for *FaceToFace*. Based on her research, she is considering using the ACM Code of Ethics and the ACTIVE ethics framework as a starting point.

Discuss whether Sandra should use ethical frameworks like the ACM Code of Ethics or ACTIVE ethics to help her create an ethical framework for *FaceToFace*.

[8]

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08EP04

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08EP05

Turn over

Your response to question 4 **must** include evidence of independent research linked to *The FaceToFace facial recognition application* case study.

- 4. Discuss whether the benefits to *South-East Asia Coffee Shops (SEACS)* of introducing the facial recognition application outweigh the potential privacy, anonymity, consent and surveillance concerns.

[12]

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08EP07

Turn over

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08EP08