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Digital society
Higher level
Paper 3

20 May 2025

Zone A morning | **Zone B** morning | **Zone C** morning

Candidate session number

1 hour 15 minutes

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Instructions to candidates

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- A clean copy of the **digital society pre-released statement** is required for this examination paper.
- Read the sources in the accompanying booklet 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. Refer to the sources in the accompanying source booklet, the pre-released statement, and your own related research. Answers must be written within the answer boxes provided.

1. (a) An applicant's IB Diploma Programme score is an example of a data point.

Identify **two other** examples of data points that may be used by the artificial intelligence (AI)-based decision-making tool.

[2]

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- (b) Outline the difference between qualitative data and quantitative data.

[2]

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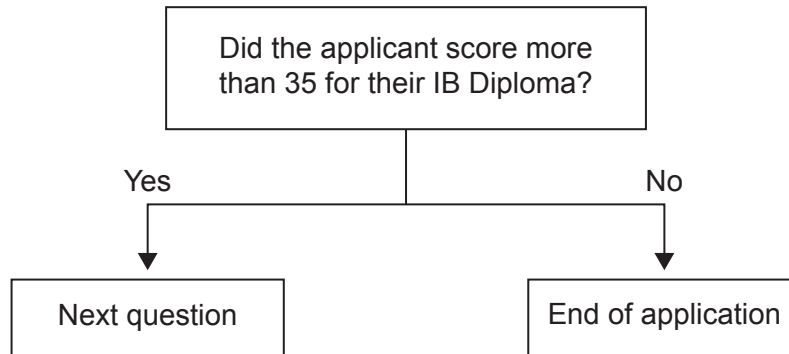
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2. (a) **Figure 1** shows an example of a condition that could be used in the decision tree for the rule-based decision-making tool.

Figure 1: Example of a condition in the decision tree used by the rule-based decision-making tool



Explain **two** reasons why the use of this condition in the decision tree may result in some suitable applicants being rejected.

[4]

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- (b) Explain why a large amount of training data would be needed to train the AI-based decision-making tool.

[2]

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- To what extent is it acceptable for an applicant's attributes to be represented by a series of data points?

[8]



- Recommend which of the interventions Border University should choose.



