1. The names of the 400 employees of a company are listed alphabetically in a book.

The chairperson of the company wishes to select a sample of 8 employees.

The chairperson numbers the employees from 001 to 400

(a) Describe how the list of numbers can be used to select a systematic sample of 8 employees.

(2)

(b) State one disadvantage of systematic sampling in this case.

(1)

(c) Write down the probability that the sample includes both the first name (employee 001) and the last name (employee 400) in the list.

(1)

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Question 1 continued

(Total for Question 1 is 4 marks)