

STEP II, 2022, Q11 EC

Question 11

Some candidates made good progress with this question. However, a large proportion of attempts did not make much progress and many were unable to score more than one or two marks.

Many candidates were able to correctly identify the way in which the required expression in part (i) should be constructed and they were often successful in putting these together correctly.

In part (ii) most candidates were able to consider the definition of α and demonstrate the inequality required, although some candidates only showed one side of the inequality. Candidate who recognised that differentiation of the expected net loss function was a useful approach were often able to make good progress towards finding the required results for the remainder of this question.

A small number of candidates attempted part (iii) of the question and many of these were able to show the first result. The explanations of the final deduction were often not convincing however.



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