

Probability Overview (13/6/23)

Q1 [Practice/E]

An exam candidate is supposed to answer 4 questions out of 5 in Section A, 3 out of 4 in Section B, and 2 out of 3 in Section C. If they don't read the instructions properly and answer 9 questions at random from the paper, what is the probability that they answer the questions they are supposed to?

Q2 [Practice/E]

The events A and B are independent and are such that $P(A) = \frac{1}{5}$ and $P(A \cup B) = \frac{1}{2}$

Find:

(i) $P(B)$

(ii) $P(A' \cup B')$

(iii) $P(B' \cap A)$

(iv) $P(B'|A)$