MATH10282: INTRODUCTION TO STATISTICS SEMESTER 2 QUIZ PROBLEM 5

(Deadline: Thursday 18 March 2021, 10:00am)

Suppose X_1, \dots	X_n is a	random :	sample from	Uniform $[a, 1]$.	Suppose	$\hat{a} = \min$	(X_1,\ldots,X_n)) is
an estimator of a .	The bias of	of \hat{a} is						

- a) bias = $\frac{1-a}{n+1}$.
- b) bias = $\frac{1+a}{n+1}$.
- c) bias = $\frac{1-a}{n}$.
- d) bias = $\frac{1+a}{n}$.

This problem is worth 1 mark. Marking scheme: 1 mark if the answer is correct, 0 mark if the answer is incorrect.

Please use Blackboard to enter your answer.