

189. You are given:

(i) T is the future lifetime random variable.

(ii) $\mu_x = \mu$, $x \geq 0$

(iii) $\text{Var}[T] = 100$.

(iv) $X = \min(T, 10)$

Calculate $E[X]$.

(A) 2.6

(B) 5.4

(C) 6.3

(D) 9.5

(E) 10.0