

**201.** For a group of lives aged 30, containing an equal number of smokers and non-smokers, you are given:

(i) For non-smokers,  $\mu_x^n = 0.08$ ,  $x \geq 30$

(ii) For smokers,  $\mu_x^s = 0.16$ ,  $x \geq 30$

Calculate  $q_{80}$  for a life randomly selected from those surviving to age 80.

(A) 0.078

(B) 0.086

(C) 0.095

(D) 0.104

(E) 0.112