

**202.** For a 3-year fully discrete term insurance of 1000 on (40), subject to a double decrement model:

(i)

$x$	$l_x^{(\tau)}$	$d_x^{(1)}$	$d_x^{(2)}$
40	2000	20	60
41	—	30	50
42	—	40	—

(ii) Decrement 1 is death. Decrement 2 is withdrawal.

(iii) There are no withdrawal benefits.

(iv)  $i = 0.05$

Calculate the level annual benefit premium for this insurance.

(A) 14.3

(B) 14.7

(C) 15.1

(D) 15.5

(E) 15.7