

6. For a special fully discrete whole life insurance of 1000 on (40):

- (i) The level benefit premium for each of the first 20 years is π .
- (ii) The benefit premium payable thereafter at age x is $1000vq_x$, $x = 60, 61, 62, \dots$
- (iii) Mortality follows the Illustrative Life Table.
- (iv) $i = 0.06$

Calculate π .

- (A) 4.79
- (B) 5.11
- (C) 5.34
- (D) 5.75
- (E) 6.07