

242. For a fully discrete whole life insurance of 10,000 on (x) , you are given:

- (i) ${}_{10}AS = 1600$ is the asset share at the end of year 10.
- (ii) $G = 200$ is the gross premium.
- (iii) ${}_{11}CV = 1700$ is the cash value at the end of year 11.
- (iv) $c_{10} = 0.04$ is the fraction of gross premium paid at time 10 for expenses.
- (v) $e_{10} = 70$ is the amount of per policy expense paid at time 10.
- (vi) Death and withdrawal are the only decrements.
- (vii) $q_{x+10}^{(d)} = 0.02$
- (viii) $q_{x+10}^{(w)} = 0.18$
- (ix) $i = 0.05$

Calculate ${}_{11}AS$, the asset share at the end of year 11.

- (A) 1302
- (B) 1520
- (C) 1628
- (D) 1720
- (E) 1878