

243. For a fully discrete 10-year endowment insurance of 1000 on (35), you are given:

- (i) Expenses are paid at the beginning of each year.
- (ii) Annual per policy renewal expenses are 5.
- (iii) Percent of premium renewal expenses are 10% of the gross premium.
- (iv) There are expenses during year 1.
- (v) $1000P_{35:\overline{10}|} = 76.87$
- (vi) Gross premiums were calculated using the equivalence principle.
- (vii) At the end of year 9, the excess of the benefit reserve over the gross premium reserve is 1.67.

Calculate the gross premium for this insurance.

- (A) 80.20
- (B) 83.54
- (C) 86.27
- (D) 89.11
- (E) 92.82