40회

```
5. (1) 연납평준순보험료
      P = ?
      P\ddot{a}_{50:\overline{10}} = {}_{10}E_{50}\ddot{a}_{60} + \ddot{a}_{45} - \ddot{a}_{50:45}
      \ddot{a}_{50:\overline{10}} = \ddot{a}_{50} - {}_{10}E_{50}\ddot{a}_{60}
      P = \frac{0.51 \times 11.1 = 7.639}{7.639}
P = \frac{0.51 \times 11.1 + 14.1 - 12.5}{7.639} \approx 0.951
      (2-1) 5보험년도 50생존, 45사망
      _{5}V_{=5}E_{55}\ddot{a}_{60} - P\ddot{a}_{55:\overline{5}}
      \ddot{a}_{55:\overline{5}|} = \ddot{a}_{55} - {}_{5}E_{55}\ddot{a}_{60}
                  = 12.3 - 0.708 \times 11.1 \approx 4.441
      _5V_{=}0.708 \times 11.1 - 0.951 \times 4.441 \approx 3.635
      (2-2) 15보험년도
      a_{15}V = a_{\overline{65:60}} = \ddot{a}_{65} + \ddot{a}_{60} - \ddot{a}_{65:60}
                 = 9.9 + 11.1 - 6.2 = 14.8
      6. 전기 연납평준 순보험료
      v = \frac{1}{1.04} \approx 0.962, v^2 \approx 0.925
      A_{60:\overline{2}|} = P\ddot{a}_{60:\overline{2}|}
      \ell_{61} = 1 - q_{60}^{(0)} - q_{60}^{(2)} = 0.78
A_{60:\overline{2}|} = (1000q_{60}^{(1)} + {}_{1}Vq_{60}^{(2)})v + 1000\ell_{61}q_{61}^{(1)}v^{2}
      _1V = \ell_{61}(1000q_{61}^{(1)}v - P) \\ = 0.78(1000 \times 0.03 \times 0.962 - P)aj
                                                                                              =22.511-0.78P
      \ddot{a}_{60:\overline{2}|} = 1 + (\dot{1} - q_{60}^{(1)} - q_{60}^{(2)})v
                  = 1 + 0.78 \times 0.962 = 1.75
      A_{60:\overline{2}|} = (20 + 0.2(22.511 - 0.78P) \times 0.962 + 1000 \times 0.78 \times 0.03 \times 0.925
      A_{60:\overline{2}|} = (20 + 0.2(22.511 - 0.78P) \times 0.962 + 21.645
                  = 45.216 - 0.15P
      50.692 = 1.75P + 0.15P = 1.9P
      P = \frac{45.216}{1.9} = 23.798
```