Announcement for the 2nd Edition of the ACTEX Manual for Exam ALTAM

(Last updated 11/27/2024) sorted by page

Page 10 **First Table.**

Change 7.379389331/4 to 73.79389331/4 = 54.00650633; change 7.565874063/4 to 75.65874063/4.

Page 186 **Example 4.2. 2nd line.**

Change $\mu^{11} = 0.03$ to $\mu^{12} = 0.03$.

Page 274 **Exercise 5.1.**

(vi) should not have deferred notation. It reads (vi) ${}_2q_{63}^{(2)} = 0.600$

Page 311 **Section 6.1. 3rd line from the bottom.**

Formula for continuous temporary joint life insurance, $f_{xy}(t)(\mu_{x+t}+\mu_{y+t})$, $(\mu_{x+t}+\mu_{y+t})$ should be dropped. It reads $\bar{A}_{\overset{1}{\overline{xy}}:\overline{n}|} = \int_0^n v^t f_{xy}(t)\mathrm{d}t$.

Page 567 **Mock Test 3, Solution to Question 2(a)**

The solution shows notation for second contingent insurance on (x), but it should be on (y) i.e. $\mathrm{E}(Z_2) = \bar{A}_{x\overset{2}{y}:\overline{n}|}$.

Page 567 **Mock Test 3, Solution to Question 2(b)**

The solution shows notation for first contingent insurance on (x), but it should be on (y). So the mean is $\bar{A}_{x\overset{1}{y}:\overline{n}|}$.

Page 569 **Mock Test 3, Solution to Question 6.(b).**

Change the bottom line to:

$P_5 = P\times 0.97^5\times(0.95\times 0.97^{-5}e^{-0.05\times 5}\times 0.477307-0.291555) = 0.102773P$.

Page 574 **Mock Exam 4, Question 4(b)**

(b)(ii) Change the question as follows: "... funding method is 220,500 to the nearest 100."

Page 580 **Mock Exam 4, Solution to Question 4(c)** (c)(i) Change the number 104,867.7 in the denominator to 104,687.7, and the first number in 316,385.3169 in () line 4 to 316,079.7137. Change also the final answer to 186,540.35.

(c)(ii) The final answer should read 13,281.7.

It reads:

(i) The average of past three years of salaries is
$B_{55} = 50000 \times \frac{1+1.03^{-1}+1.03^{-2}}{3} \times 1.6\% \times 25 = 19,423.1313$, and thus

$$AL_{55} = B_{55} \cdot \frac{d^{(r)}_{60-}}{l^{(\tau)}_{55}} \cdot v^5 \ddot{a}^{(12)}_{60} + B_{55} \cdot \frac{d^{(r)}_{60+}}{l^{(\tau)}_{55}} \cdot v^{5.5} \ddot{a}^{(12)}_{60.5} + B_{55} \cdot \frac{d^{(r)}_{61}}{l^{(\tau)}_{55}} \cdot v^6 \ddot{a}^{(12)}_{61}$$
$$= \frac{B_{55}}{104,687.7}(316,079.7137 + 67,749.26511 + 621,594.8911)$$
$$= 186,540$$

(ii) $vp^{(\tau)}_{55} AL_{56} = \frac{26}{25} \times 1.03 AL_{55}$
Hence $NC_{55} = vp^{(\tau)}_{55} AL_{56} - AL_{55} = \left(\frac{26\times 1.03}{25} - 1\right) AL_{55} = 13,281.7.$