

Below are the correct answers to the problems in this set; for complete solutions see the course website, www.math.uiuc.edu/~hildebr/370. The source of each problem is indicated in parentheses; for example, “#22/may01” means that the problem occurred as Problem 22 on the May 2001 Actuarial Exam 1/P.

- | | | | |
|-----------------------|----------|------------------------|-----------|
| 1. [1-1, #1/1999] | B: 0.5 | 15. [1-19, #28/nov00] | E: 20% |
| 2. [1-2, #1/may00] | A: 0.05 | 16. [1-51, #1/nov01] | A: 4 |
| 3. [1-3, #12/may01] | D: 0.6 | 17. [1-52, #40/may01] | B: 0.173 |
| 4. [1-4, #14/1999] | E: 0.65 | 18. [1-53, #9/nov01] | D: 0.48 |
| 5. [1-5, #30/nov00] | B: 0.33 | 19. [1-54, #31/may01] | C: 1/2 |
| 6. [1-6, #18/may03] | D: 53 | 20. [1-55, #6/may01] | D: 0.0141 |
| 7. [1-7, #1/may03] | D: 0.52 | 21. [1-56, #4/nov01] | B: 0.29 |
| 8. [1-8, #37/may03] | D: 0.40 | 22. [1-101, #29/may01] | D: 0.049 |
| 9. [1-9, #33/may00] | B: 0.657 | 23. [1-102, #2/may00] | D: 0.45 |
| 10. [1-10, #3/1999] | C: 0.36 | 24. [1-103, #5/may03] | B: 0.21 |
| 11. [1-11, #8/may03] | B: 0.16 | 25. [1-104, #3/nov00] | D: 880 |
| 12. [1-12, #12/nov00] | D: 0.22 | 26. [1-105, #22/1999] | D: 17/24 |
| 13. [1-13, #31/may03] | D: 0.42 | 27. [1-106, #9/may01] | C: 0.467 |
| 14. [1-14, #22/nov00] | C: 2/5 | 28. [1-107, #29/1999] | C: 0.24 |