Sample ACE Memorization Cards ILA LP Exam Instructions for Cards

- Extra blank cards are provided, so you can add or delete cards.
- Card Layout
 - Acronym in top left corner (bold font)
 - Bottom left -- Resource (Text, SN, PR)
 - Bottom right -- ACE study guide section / page
- Make notes or add to cards in white space
- Some cards that have multiples resources (syllabus has different texts with the same list)
- Consider purchasing the ACE memorization CDs to help you memorize.
- Also, please consider attending the ACE seminar!

Pricing Considerations for Term Insurance

- 1. Mortality
- 2. Lapse Rates
- 3. Underwriting
- 4. Commission
- 5. Expenses and inflation
- 6. Pricing options
- 7. Profit objectives
- 8. Legal and regulatory issues

Life and Annuity Product Features (LP-105-07) Chap 1

Section A

Ways to Cover Substandard Mortality

FLAT RETURN

- 1. Flat extra premiums
- 2. Lien method
- 3. Advance in age
- 4. Table ratings
- 5. Return of premiums

Credibility of Mortality Assumption

- 1. Credibility is measured through a confidence interval (CI)
- 2. 95% CI = μ +/- 1.96 σ
 - a. $\mu = nq$
 - b. $\sigma^2 = npq$
- 3. Enhancing credibility
 - a. Use multiple years of exposures
 - b. Group ages into 5 or 10 year age groups
 - c. Could do an actual to expected analysis using an industry study
- 4. Expected value and variance for a group of policies -- by counts

$$E(Claims) = \sum_{i=1}^{n} q_i$$
 $Var(Claims) = \sum_{i=1}^{n} [(1 - q_i) \times q_i]$

5. Expected value and variance for a group of policies -- by amounts of insurance

$$E(Claims) = \sum_{i=1}^{n} Face \times q_i$$
 $Var(Claims) = \sum_{i=1}^{n} [Face^{2} \times (1 - q_i) \times q_i]$

Experience Assumptions for Life and Ann (LP-107-07)

Section C

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Analyzing Mortality Experience

CRAM

- 1. Credibility
- 2. Risks covered
- 3. Adjusting mortality for special situations
 - a. Multiple life policies
 - b. Substandard mortality
 - c. Term conversions
 - d. Anti-selection
 - e. Blending mortality tables
 - f. Adjusting similar experience
- 4. Mortality studies

Experience Assumptions for Life and Ann (LP-107-07)

Section C

Stochastic Modeling Advantages and Disadvantages

Advantages

- 1. See distribution of results
- 2. Pinpoint scenarios to investigate
- 3. Understand risk mitigation and diversification strategies
- 4. Calculate risk metrics like VaR and CTE
- 5. Used in new/emerging accounting regimes

Disadvantages

- 1. Complicated -- need to invest in stochastic functionality
- 2. Need technology
- 3. Assumption setting is complicated
- 4. Large amounts of data to summarize
- 5. Senior management buy-in (they may not be familiar with methods)
- 6. Block box phenomenon

Life Insurance Costing Risk Analysis (LP-114-09)

Section D

Stochastic Modeling: Theory and Reality

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Modeling Policyholder Behavior Annuitization and Withdrawal

1. Annuitization (formula for "in-the-moneyness")

$$ITM = \frac{GMIB \times \frac{a_x^C}{a_x^G}}{AV}$$

- 2. Withdrawal -- factors which will impact withdrawal rates:
 - a. In-the-moneyness
 - b. Age
 - c. Tax considerations
 - d. Distribution channel
 - e. Product design

Cash Value Accumulation Test (CVAT)

- 1. Test: CV < NSP (this a pass)
- 2. Net Single Premium (NSP) calculation rules:
 - a. Max(4% interest rate, interest rates guaranteed at issue)
 - b. Pre-10/21/88, use contract's mortality charges, if none specified, valuation mortality
 - c. Post-88, use "reasonable" mortality charges < standard tables
- 3. Cash Surrender Value (CV) -- doesn't consider surrender charges
- 4. CVAT is a prospective test that must be met at all times