SOA真题November2003Course8F PDF转换可能丢失图片或格式,建议阅读原文

https://www.100test.com/kao_ti2020/84/2021_2022_SOA_E7_9C_ 9F_E9_A2_98N_c50_84017.htm COURSE 8: Fall 2003 1 GO TO **NEXT PAGEFINANCEMorning Session**BEGINNING OF EXAMINATION**FINANCEMORNING SESSIONQuestions 1-5** pertain to the Case Study. Each question should be answered independently.1. (8 points) Mr. Newman has just given J. Peterman the unaudited line-of-business and consolidated financials of NADA for 2002 along with projections for 2003-2005. Inaddition, NADA has supplied Peterman with an extensive business plan detailing the growth potential and opportunity for each of its business units. The business plan contains an emphasis on growing the GIC business. Mr. Newmanplans to do this through the addition of Funding Agreements with 12-day put options. The Funding Agreements will be sold to institutional investors other than retirementplans.Peterman is concerned about NADA's growing reliance on GIC sales. Peterman hasquestions about the profitability, liquidity, and investment risks of the GICs.Mr. Newman has asked you to address the rating agency 's concerns.(a) Explain why Peterman may have concerns about increased Funding Agreementsales and their effects on profitability, liquidity, and investment risk.(b) Peterman has recently adopted a view of interest rate risk similar to Moody' sInvestor Service. Summarize Moody

's view of interest rate risk, and describe theimpact that such views could have on Peterman's evaluation of NADA's currentand

planned GIC business.COURSE 8: Fall 2003 2 GO TO NEXT PAGEFINANCEMorning SessionQuestions 1-5 pertain to the Case Study.Each question should be answered independently.2. (10 points) In preparation for the upcoming rating agency meeting with J. Peterman, Chief Actuary Kramer has been asked to look into improving the RBC ratio of the termlife block. His preference is to change the asset mix backing the product. Manzier Reinsurance has offered to coinsure 35% of NADA 's term life block.(a) (1 point) Calculate the required capital for year-end 2003 for the term life blockof business prior to any reinsurance. Show your work.(b) (2 points) Propose terms for the reinsurance transaction with Manzier that wouldoptimize NADA's RBC ratio for the term life block of business.(c) (3 points) Calculate the required capital for year-end 2003 for the term life block if the reinsurance deal you proposed is consummated. Show your work.(d) (2 points) Calculate the impact of your proposed reinsurance arrangement on NADA's year-end 2003 RBC ratio. Assume no change to available surplus. Show your work.(e) (2 points) Predict Manzier 's response to the terms of the reinsurance arrangementproposed in part (b).COURSE 8: Fall 2003 3 GO TO NEXT PAGEFINANCEMorning SessionQuestions 1-5 pertain to the Case Study. Each question should be answered independently.3. (12 points) NADA 's business plan projects increased sales of GICs beginning in 2003. To achieve this plan, the Marketing Department has instituted a commission scale forGIC products sold in 2003, as follows:#61472.#8226.#61472.a commission payment of 0.2% of deposits for GICs with 1-year

interest rateguarantees#61472.#8226.#61472.NADA's GICs are FAS 97 investment contracts.#61472.#8226.#61472.There are no withdrawals prior to maturity.#61472.#8226.#61472.For assets backing the GIC business sold in 2003, NADA expects to earn aninvestment return of 4.295%.#61472..Expenses are 5 basis points per year.(a) Describe the procedure for determining the capitalization of the acquisitionexpenses and the subsequent amortization of the DAC asset for the GIC line.(b) Calculate the DAC asset for new business planned to be written in 2003 for theGIC line. Show your work.(c) Calculate the amortization schedule for the DAC asset from part (b). Show yourwork.COURSE 8: Fall 2003 4 GO TO NEXT PAGEFINANCEMorning Session 100Test 下载频 道开通,各类考试题目直接下载。详细请访问 www.100test.com