

SOA真题November2001Course8M 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_84042.htm COURSE 8: November 2001 -1- STOPHealth and Managed CareMorning SessionNovember 2001- Course 8MSociety of Actuaries**BEGINNING OF EXAMINATION**MORNING SESSIONQuestions 1 6 pertain to the Case Study1. (6 points) You have been provided the claims department statistics for Wonderful Life as shown in Tables MM 5a and MM 5b.(a) Explain why keeping claims inventory records is important for Wonderful Life.(b) Assess the strengths and weaknesses of Wonderful Life ' s claim status reports.(c) Describe potential e-commerce functions and technologies that Wonderful Lifemight implement to increase claims processing efficiency.(d) Describe critical factors for the successful implementation of an e-commercestrategy.COURSE 8: November 2001 -2- STOPHealth and Managed CareMorning SessionQuestions 1 6 pertain to the Case Study2. (8 points) You were recently hired as the financial actuary for Wonderful Life. Your firstproject with the company involves a 3-year financial forecast.In addition to information in the case study, you are given the following:Annual Claims Trend = 15.4%Monthly Claims Trend = 1.2%July Seasonal Factor = .90Seasonal Normalization Factor = 1.000Projected Premium for January 2001 = \$165,000,000Projected Members for January 2001 = 980,000Assumed Loss Ratio = .78(a) Discuss phases of a sound financial management process.(b) Describe methods commonly

used to project claims costs and the conditions under which each method may be appropriate. (c) Calculate the Per Member Per Month (PMPM) claims cost for January 2001 under each of the four commonly used methods. (d) Recommend one of the four methods for Wonderful Life to develop their financial forecasts. Justify your recommendation.

COURSE 8: November 2001 -3- STOP Health and Managed Care Morning Session Questions 1-6 pertain to the Case Study 3. (13 points) You are a group underwriter for Wonderful Life in the Major Medical Division. You have obtained the following data for Groups 2 and 3 in addition to the information already included in Table MM 2 and MM 3:

Additional Data for Experience Period	July 1, 1999 through June 30, 2000	Annual Exposure	Total EEs	Total Claims
Group 2	120	\$216,000		
Group 3	225	\$518,000		

Total claims have not been reduced for large claims greater than \$50,000. (a) Describe various methods of pooling claims experience data that could be used in developing experience rates. (b) Discuss considerations involved in determining the credibility of a group's experience in the rate setting process. (c) Calculate the composite renewal premium rate per employee for each of Group 2 and Group 3 using only the data in the case study. Show your work. (d) Recalculate the composite renewal premium rate for each of Group 2 and Group 3 using a multi-year approach. Use the additional claims data provided above and assume an equal weighting for each year of data. Show your work. (e) Describe other considerations applicable when underwriting a particular employer group that could affect the accuracy of your rate calculations.

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STOPHealth and Managed CareMorning SessionQuestions 1 6
pertain to the Case Study4. (7 points) You are the Valuation Actuary
for the Major Medical Division of WonderfulLife.(a) Describe
common methods you might apply to estimate medical claim
reserves.(b) Calculate the outstanding liability as of December 31,
2000, for hospital claimsincurred from October 2000 through
December 2000. Assume the claimspayment pattern for hospital
claims incurred in January 1998 is representative of future payment
patterns. Show your work.(c) Calculate the portion of the above
outstanding liability expected to be paid byMarch 31, 2001. Use the
same assumptions as in (b) above. Show your work.5. (6 points) For
the past few years, Wonderful Life has seen its claim expenses grow at
a faster rate than its premium revenue, leading to a decreasing
operating margin. In thiscompetitive environment, measuring claim
cost trends and forecasting future trends in thehealth insurance
industry is crucial to accurate pricing.You have been asked by the
President of Wonderful Life to provide additionalinformation on
medical expense trend to help him understand the situation.(a)
Define trend, its use, and its components.(b) Discuss various
techniques which can be used to analyze trend and
commonproblems encountered in trend analysis.(c) Calculate the
component of total trend attributable to deductible leveraging
given that total projected 2001 medical trend is 12%. Assume that the
mix of businessby plan in Table MM 3 and base manual claim rate in
Table MM 2a arerepresentative of all of Wonderful Life ' s major
medical business and are notexpected to change. Show your

work.COURSE 8: November 2001 -5- STOPHealth and Managed
CareMorning SessionQuestions 1 6 pertain to the Case Study
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