SOA真题May2005ExamC 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＿S0 A＿E7＿9C＿ 9F＿E9＿A2＿98M＿c50＿84140．htm Course6：Spring 2005－1－GO ON TO NEXT PAGE Morning Session COURSE 6MORNING SESSION SECTION A WRITTEN ANSWER Course 6：Spring 2005－2－GO ON TO NEXT PAGE Morning Session ＊＊BEGINNING OF EXAMINATION＊＊MORNING SESSION 1 （5points）Your company isevaluating active and quasi－passive investment strategiesfor bond portfolio management．（a）Define each quasi－passive indexation approach．（b）Describe the advantages and disadvantrges of each quasi－passive indexation approach．（c） Explain the reasonsyour company would consider an active investment strategy．（d）Describe the sector and security strategies that an active investment manager would use to Oselect individual bonds 2 （ 7 points）Your company isoffering a 15 －year term－certain immediate annuity with paymentslinked to theCPI．Policyholders can withdraw fundson demand at market values The universe of available investmentsconsists of the following：\＃8226．Real return public bonds\＃8226．Real estate（a）O utline the advantages and disadvantrges of each investment for backing thisannuity．（b） Recommend an investment strategy using the investmentsavailable． （c）Describe the major components of an accumulated cash flow scenario－based model．（d）O utline the major componentsof the investment policy statement for this product．Course6：Spring 2005－ 3－GO ON TO NEXT PAGE Morning Session 3．（5points）You are
given the following information: Bond Term Effective Duration EffectiveConvexity A 53.1-41.7B54.523.4C 54.221.3D 52.7 64.5Theoption and price characteristicsof BondsA, B, C and D are asfollows \#8226. onebond isoption- freewith a current price below par \#8226. one bond isputable, priced at par (a) Determine the option and price characteristicscorresponding to each of BondsA, B, C and D. Explain your answer. (b) A sessthe limitationsof duration asan interest raterisk measure. (c) Defineconvexity. Compare effectiveconvexity and modified convexity. (d) Calculate the approximate percentage price change for BondsA and B assuming a decrease in yield of $0.50 \%$. Show all work. Course 6: Spring 2005-4- GO ON TO NEXT PAGE Morning Session 4. (10 points) You aregiven the following with respect to treasury securities asof today, May 13, 2005: Security Yearsto M aturity A nnual Coupon RatePaid Semi- annually Yield-to-maturity A 0.50\% 3.0\% B 100\% 3.2\% C 1.56\% 3.5\% D 2.05\% 3.6\% (a) Calculatethespot rate for each maturity date. (b) Explain how arbitrage profitscould be made from coupon stripping. (c) Calculate the one year forward rate, one year from today. (d) W ith respect to the pure expectations theory (i) Describe the theory (ii) Describethe interpretationsof the theory that havebeen put forth by economists(iii) Explain the shortcomingsof the theory (e) With respect to other theories of term structure of interest rates (i) Briefly describe each theory (ii) U sing each theory, compare the one year spot on May 13, 2006, with the one year forward rate calculated in (c) Show all work. Course 6: Spring 2005-5- GO ON TO NEXT PAGE Morning Session
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