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https／／www．100test．com／kao＿ti2020／84／2021＿2022＿S0 A＿E7＿9C＿ 9F＿E9＿A2＿98M＿c50＿84020．htm CO URSE 6MORNING SESSIO NSECTION A WRITTEN ANSW ERC ourse6：Spring 2004 －1－GO ON TO NEXT PAGEMorning Session＊＊BEGINNING OF EXAMINATION＊＊MORNING SESSION1（4points）Outlinethe key characteristics of securities regulationsand restrictionsineffect in the U nited States2．（ 6 points）You aregiven the following：Scenario 1 Scenario 2 Scenario 3Probability 45\％40\％15\％Stock A Return 30\％ $2 \%$－10\％Stock B Return－8\％15\％5\％Stock C Return 8\％4\％ －10\％T－billsReturn 3\％3\％3\％An investor has\＃61472．\＃8226．\＃61472．arisk aversion of 4\＃61472．\＃8226．\＃61472．two types of bondsare available with par values of 100：（i） 5 －year zero coupon callable bonds，callable at 80 after two years of call protection（ii） 10 －year zero coupon putable bonds，putable to issuer at 40 after threeyears（iii）market pricesare given in the table below：M arket Date PriceC allable Bond Putable BondDecember 31，20037050D ecember 31， 200410050 December 31，2005 9060D ecember 31， $20067060 \# 61472$ ．\＃8226．\＃61472．CMO A isbacked by $7.5 \%$ pass throughsconsisting of the following tranches\＃61472．\＃8226．\＃61472．5－year very accurately defined maturity（V A DM）\＃61472．\＃8226．\＃61472．10－year sequential－pay\＃61472．\＃8226．\＃61472．CMO B isbacked by 7．5\％ pass throughsconsisting of the following tranches\＃61472．\＃8226．\＃61472．7－year

PAC \＃61472．\＃8226．\＃61472．10－year
PAC \＃61472．\＃8226．\＃61472．20－year
companion\＃61472．\＃8226．\＃61472．3 year sequential－pay\＃61472．\＃8226．\＃61472．10－year sequential－pay\＃61472．\＃8226．\＃61472．the common shares of each company are currently trading at 30 as ofD ecember 31， 2003\＃61472．\＃8226．\＃61472．there are no taxes or transaction cost\＄\＃1472\＆\＃61472．an industry analyst has projected the possible stock pricesover the next twoyearsasafunction of the performance of the U Seconomy：U SEconomy Company A C ompany B2004 2005 December31，2004D ecember31，2005D ecember31， 2004December31，2005Expansion Expansion 323333 36Expansion Recession 323033 30Recession Expansion 302929 29Recession Recession 30302927 （a）Determine if the analyst＇sprojections allow for arbitrage．（b）U sing the analyst＇sprojections，determine the value of aEuropean put option onCompany B＇sstock if the option expireson December 31，2005，and has anexercise price of 30．（c）Determine how an investor could replicate the payoff of a one year European calloption with an exercise price of 31 on Company A＇sstock using a portfolio of thetwo companies common sharesShow all work．C ourse 6：Spring 2004－5－GO ON TO NEXT PAGEMorning 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

