

**DAY 1 Morning session (2 hours) How to approach the exam? The key elements** - The 100 Multiple-Choice questions in 4 hours **Morning session (2 hours) Afternoon Session (4 hours) Foundations of Risk Management** - Basics about risk - Extreme situations - CAPM: Capital Asset Pricing Model - Performance measurements (including the Information Ratio) - Regression models (including multi-factors with Fama-French) - Ethics **Exam Weight: 20%** **DAY 2 Morning session (4 hours) Afternoon Session (3 hours) Quantitative Analysis** - An overview of probabilities - Basics of statistics (including several distributions and correlation discussions): detailed Normal and Student's t distribution analysis - Bayes' applied - Hypothesis testing extended - that includes a multitude of tests - Regression analysis with among others ANOVA and issues such as multicollinearity for multiple regressions - Simulation discussions **Exam Weight: 20%** **Afternoon Session (1 hour) Recap** - Focus on highlights **DAY 3 Morning session (4 hours) Afternoon Session (4 hours) Financial Markets and Products** - Markets organization including participants - Derivatives on all 4 sectors (Equity, Fixed Income, FX and Commodities): Forward & Options. Hedging strategies versus speculative strategies - How futures/forwards markets work. Using futures/forwards with among others: the margin process, basis risk, number of contracts needed - Fixed Income with among others interest compounding, risk analysis, Bonds, Mortgage-Backed Securities and Rating Agencies **Exam Weight: 30%** **DAY 4 Morning session (4 hours) Afternoon Session (4 hours) Valuation and Risk Models** - VaR: an overview of different approaches and relevant comparisons. Time adjustments and Confidence Interval and extensions (volatility) - Stress-testing aspects - Expected shortfall / conditional VaR discussion - Option pricing using different models (binomial, Black-Scholes) - Option risk management: the Greeks - Key interest rate risk management aspects - Country risk & credit rating processes discussion - Operational risk discussion (related to capital) **Exam Weight: 30%** **DAY 5 Morning session (4 hours) Afternoon Session (4 hours) Exam focus in interaction** - Exam focus interactive with the participants