NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF COMMERCE

DEPARTMENT OF FINANCE

BACHELOR OF COMMERCE HONOURS DEGREE IN FINANCE PART IV – 2^{ND} SEMESTER SUPPLEMENTARY EXAMINATION – AUGUST 2006

INSTITUTIONAL INVESTMENT MANAGEMENT [CFI 4203] TIME ALLOWED: 3 HOURS 10 MINUTES

INSTRUCTIONS

- 1. THIS PAPER IS 3 HOURS AND 10 MINUTES, OF WHICH 10 MINUTES IS READING TIME.
- 2. THIS PAPER CONTAINS SIX [6] QUESTIONS.
- 3. ATTEMPT ANY FIVE [5] QUESTIONS.
- 4. EACH QUESTION CARRIES 20 MARKS.
- 5. SHOW ALL YOUR WORKINGS.

QUESTION ONE

(a) Distinguish between top-down and bottom-up approaches to active equity portfolio management. Explain how each of the approaches can be accomplished.

[8 Marks]

(b) Identify and provide brief explanations of the various market timing approaches that are open to an investor. [12 marks]

QUESTION TWO

(a) You are an investment advisor for an up-and-coming investment company. You are trying to come up with an optimal asset allocation for three clients whose degrees of risk tolerance are as follows:

Client A - 0.0 Client B - 1.5 Client C - 3.0

In addition, the following information is available to you:

Expected return on shares 18%
Expected return on bonds 12%
Standard deviation of the return on shares 30%
Standard deviation of the return on bonds 20%
Correlation between the returns on shares and bonds 40%

Determine the optimal share-bond mix for the investors. Comment on the significance of your results. [10 marks]

(b) Discuss how an individual's investment strategy may change as he or she goes through the various phases of the investment life cycle. [10 marks]

OUESTION THREE

- (a) Top-down adherents would argue that the biggest differences in portfolio performance come from differences in asset allocation than in individual stock selection. Why is this likely to be the case? [5 marks]
- (b) What is the difference between the time-weighted and the money-weighted rate of return on a portfolio. [5 marks]
- (c) Provide the Roll critique of performance measurement based on the Capital Asset Pricing Model and Security Market Line. [6 marks]
- (d) Nomsa Khumalo is an investment performance analyst for a major investment advisory firm. She has before her the following information about the performance of Megabucks. Advisors for the past quarter.

Benchmark Return=8.5%Timing Return=1.0%Selection Return= $\frac{-1.5\%}{8.0\%}$

Market Return = 8%; Risk-free Rate = 3%

What were the actual and target betas of Megabuck Advisors during this quarter?

[4 marks]

QUESTION FOUR

(a) Identify and briefly explain the various passive and active bond portfolio management strategies that are available to an investor. [20 marks]

QUESTION FIVE

- (a) Explain how and why futures and options could be used in equity portfolio management. [8 marks]
- (b) You are the fund manager for a Zimbabwean life office that has a global orientation in its investment strategy. At your monthly strategy meeting your investment team decides that:
 - ♦ Japanese growth will increase following a cut in Japanese interest rates.
 - S.A. growth will be boosted by a surge in productivity.

Suggest how this might affect your investment policy.

[6 marks]

(c) Outline four characteristics of real estate investment that set equity ownership of real estate apart from equity ownership of traded common stock. [6 marks]

QUESTION SIX

Describe the steps followed in a typical investment process.

[20 marks]