國立中山大學 105 學年度金融創新產業碩士專班招生考試試題 科目名稱:財務管理

※本科目依簡章規定「不可以」使用計算機,以下題目包括兩部分,共有填充題及問答申論題。

第一部分: 共 5 格填空題,每一格 10 分,共計 50 分,只需要填入最後的完整答案。

1.	Analysis of past monthly movements in HTC's stock price produces the following
	estimates: $\alpha = 4.5\%$ and $\beta = 1.6$. If the market index subsequently rises by 15% in
	one month and HTC's stock price increases by 25%, what is the abnormal change
	in HTC's stock price?(1)
2.	A random walk process for a single stock consists of the toss of a fair coin at the
	end of each day. If the outcome is heads, the stock price increases by 1.75%. If the
	outcome is tails, the stock price decreases by 0.95%. What is the drift of such a
	process?(2)
3.	A firm produces \$124 million of net income on \$1,600 million of assets. Through a
	six-sigma project, the firm is able to decrease the assets employed to \$1,250 million.
	Given a 6% cost of capital, what is the increase in the EVA (Economic Value
	Added)?(3)
4.	Consider a project that costs 100 and generates a single cash-flow in one year. This
	cash-flow is equal to 120 with probability q or 90 with probability (1-q). The IRR
	of the project is equal to 10%. Find q(4)
5.	The correlation coefficient between a stock and the market portfolio is 0.6. The
	standard deviation of return of the stock is 30% and that of the market portfolio is
	20%. Calculate the beta of the stock. (5)

第二部分: 共有 4 題問答申論題,共計 50 分。

- (一)投資學在理論上,強調利用「證券組合 (Portfolio)」來分散風險;因此,許多人認為企業應該以「多角化 (Diversification)」來分散風險。試說明及分析兩者間的差異。(15%)
- (二)說明 Bank3.0 (金融 3.0) 與 金融科技 (Fintech) 的差異及發展? (15%)
- (三)說明「內線交易 (Insider's Trading)」之意義,舉一個實例說明。(10%)
- (四)簡述 MM 「資本結構無關理論」之意義。(10%)

[題目結束]