

#### FACULTY OF COMMERCE DEPARTMENT OF FINANCE BACHELOR OF COMMERCE HONOURS DEGREE IN FINANCE PART IV – 2<sup>nd</sup> SEMESTER FINAL EXAMINATION - JANUARY 2011 <u>REAL ESTATE INVESTMENT AND FINANCE[CFI 4205]</u>

# TIME ALLOWED: 3 HOURS

### **INSTRUCTIONS**

- 1. Answer ANY FOUR questions
- 2. Start the answer to each full question on a fresh page of the answer sheet.
- 3. Questions may be written in any order, but must be legibly numbered.
- 4. Write legibly.

## **INFORMATION FOR CANDIDATES**

The businesses in this question paper are intended to be fictitious

The paper contains FIVE(5) questions.

All questions carry equal marks [25 marks]

### **Question One**

- (a) Identify and explain **FOUR** benefits of international real estate investment.[16 marks]
- (b) Evaluate the use of property derivatives in real estate risk management. [9 marks]

Total [25 marks]

### **Question Two**

- (a) Outline <u>**THREE**</u> unique characteristics of real estate and demonstrate how they affect real estate returns and risk. [15 marks]
- (b) With reference to the 2007-2009 global financial crisis, evaluate the use of securitization in real estate markets. [10 marks]

Total [25 marks]

#### **Question Three**

(a) You are given the following information about a prospective property investment:

Gross Potential Rental Income	\$150,000.00	Asking price	\$725,000.00
Vacancy and collection loss rate	10%	Mortgage loan	75% of price
Fixed Expenses	\$5,000.00	Mortgage rate	8% p.a
Variable	\$5,000.00	Loan term	25 years
Expenses			
Depreciation	\$5,000.00	Marginal tax rate	31%
Number of	8	Required rate of	10%
rooms		return on property	
Number of	3	Expected price after	\$720,000.00
bathrooms		2 years	
Distance from	10 miles		
city			

A hedonic regression model gives the following slope coefficients for the property characteristics:

Characteristic	Units	Slope coefficient (\$ per	
		unit)	
Number of rooms	Number	50 000	
Number of bathrooms	Number	10 000	
Distance from city	Miles	(3 000)	

### **Required:**

- (i) Calculate the appraised values of the property using the income approach and the sales comparison approach. [8 marks]
- (ii) Calculate the Net Present Value of the property investment and make an investment recommendation. [12 marks]
   (NB: Assume an investment horizon of two years and annual mortgage installments, with a prepayment option)
- (b) Explain why mortgage prepayment risk is important to lending institutions.[5 marks]

Total [25 marks]

## **Question Four**

- (a) State and explain <u>FOUR</u> factors affecting the income generated from a property investment. [12 marks]
- (b) Identify and evaluate any <u>THREE</u> strategies that a real estate investor may adopt to manage income risk. [9 marks]
- (c) Explain why international real estate investment provides greater diversification benefits than international stocks and bonds. [5 marks]

## **Question Five**

- (a) Critically evaluate the <u>THREE</u> key risks associated with construction and project finance. [9 marks]
- (b) Discuss the factors affecting the inflation hedging efficiency of real estate. [8 marks]
- (c) A house is bought for \$180,000.00 of which \$45,000.00 is deposit. A mortgage is secured for the house at 18% interest compounded monthly and dischargeable in 20 years.
  (i)What is the monthly payment? [3 marks]
  (ii) What is the buyer and seller's equity in the house after 12 years? [5 marks]

Total [25 marks]

## **END OF PAPER**