

The Co-operative University of Kenya <u>END OF SEMESTER EXAMINATIONS AUGUST-2022</u> <u>EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FINANCE</u> <u>(YR III SEM I)</u> <u>UNIT CODE: BFIN 3106</u>

UNIT TITLE: FIXED INCOME SECURITIES ANALYSIS AND VALUATION

DATE: 31ST AUGUST 2022

TIME: 9:00 AM - 11:00 AM

INSTRUCTIONS:

• Answer question **ONE** (compulsory) and any other **TWO** questions

QUESTION ONE

(a) Suppose that the discount bond prices are as follows

t	1	2	3	4	5
Bt	0.952	0.898	0.863	0.807	0.757
Calculate the price of the coupon bond.					(10 Marks)

(b) Explain the following terminologies as applied in financial analysis

(0)	Explain the I	onowing terminologies as applied in malieral ana	19515		
i.	Spot inte	(2 Marks)			
ii.	Coupon b	oonds	(2 Marks)		
iii.	Forward	interest rates	(2 Marks)		
iv.	Zero – co	oupon bonds	(2 Marks)		
(c)	(c) A bond was originally issued to have a life of 20 years. Its book value is 1,000 with an				
	interest rate of 10%. If the investors required rate of return on the bond currently stands				
at 12%, determine the bonds current value. (6 Marks)					
(d)	A company i	ssues 10,000 equity shares of sh 100 each at a prer	nium of 10%. The		
	company has	been paying 25% dividend to equity shareholders	for the past five years		
	and expects t	to maintain the same in the future also;			
	Requ	ired:			
	i.	Compute the cost of equity capital.	(2 Marks)		

- ii. If the desired market price of equity is kshs. 175, determine the viability index. (4 Marks)
- (e) Highlight and explain THREE objectives of monetary policy

QUESTION TWO

- (a) Discuss the various forms of EMH and their applications in determination of investment frontier. (12 Marks)
- (b) A firm's net operating income is sh 100,000 and has interest payment of amounting to 5% on NOI. The equity capitalization rate is 6% and the cost of Debt is 11%. Using the Net Operating Income approach calculate;

i.	The value of the firm	(3 Marks)
ii.	Cost of capital	(3 Marks)
iii.	The weighted Average Cost of capital of the firm.	(2 Marks)

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QUESTION THREE

(a)	Explain various features to consider when choosing between environment and			
	domestic markets.	(5 Marks)		
(b)	Explain the various principles under which mutual funds operate (Give ex	amples in		
	each cases)	(5 Marks)		
(c)	Give reasons as to why investors use derivatives.	(10 Marks)		

QUESTION FOUR

(a)	Explain F	IVE reasons	for rapid	growth of fu	tures and o	ntions markets	(10 Marks)
(a)	Explain 1		101 Taplu	giowin of fu	tures and 0	phons markets.	(10 marks)

(b) Discuss FIVE important market functions of a foreign exchange market (10 Marks)

QUESTION FIVE

- (a) Explain the various financial innovations in the financial markets (10 Marks)
- (b) Explain the meaning and use of warrants, convertibles, futures and illustrate the fundamental differences between futures and options. (10 Marks)