Name: Enrolment No:



UNIVERSITY OF PETROLEUM & ENERGY STUDIES End Semester Examination – December, 2021

Program: BBA FAS
Subject/Course: Fixed Income Securities
Course Code: FINC3002
Semester: V
Max. Marks: 100
Duration: 3 Hours

Section A (Type the answers in test box) 1. Each question carries 2 marks. 2. Instructions- Select the correct answers.							
					S No	Question	CO
					Q1	Liquidity of Indian bond market is higher compared to Indian equity market. A) True B) False	CO1
Q2	For a given term to maturity and initial yield, the price volatility of a bond is lower for which of the coupon rates A) Higher B) Same C) Lower D) Basis point	CO1					
Q3	When yields in the marketplace rise above the coupon rate at a given point in time, the price of the bond rises so that an investor buying the bond can realizes capital appreciation A) True B) False	CO1					
Q4	Holding other factors constant, the higher the yield to maturity at which a bond trades, the higher the price volatility A) False B) True	CO1					
Q5	For a given change in yields, price volatility is greater when yield levels in the market are A) Low B) High C) Same D) Constant	CO1					
Q6	Macaulay duration and modified duration are identical.	CO1					

	A. True	
	B. False	
	5. 1 4.50	
Q7	Which of the following is the relationship between bond prices	CO1
Q'	and yield to maturity (YTM)	
	A) Positive	
	B) Negative	
	C) Neutral	
	D) Zero	
Q8	Which of the following is a feature of Indian bond markets.	CO1
₹ º	A) No institutional buyer	001
	B) No retail buyer	
	C) High liquidity	
	D) Low liquidity	
	by Low inquiatry	
Q9	Investments in fixed instrument securities always provides	CO1
~ /	returns which are insufficient to cover inflation.	001
	A) False	
	B) True	
	2,	
Q10	The bonds trading on BSE in India have higher volumes compared	CO1
Q 10	20	
	to bonds traded on NYSE.	
	to bonds traded on NYSE. A) True	
	to bonds traded on NYSE. A) True B) False	
	A) True	
1. Each	A) True B) False	
	A) True B) False Section B	
	A) True B) False Section B question carries 5 marks.	CO2
2. Instru	A) True B) False Section B question carries 5 marks. uctions: Write short answers.	CO2
2. Instru Q1	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond.	
2. Instru Q1	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put.	CO2
2. Instru Q1	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond.	
2. Instru Q1 Q2 Q3	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB.	CO2 CO2
2. Instru Q1	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income	CO2
2. Instru Q1 Q2 Q3	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB.	CO2 CO2
2. Instru Q1 Q2 Q3	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income	CO2 CO2
2. Instru Q1 Q2 Q3 Q4	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income trading.	CO2 CO2
2. Instru Q1 Q2 Q3 Q4	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income trading. Section C	CO2 CO2
2. Instru Q1 Q2 Q3 Q4 1. Each 2. Show	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income trading. Section C question carries 10 marks. Attempt three questions.	CO2 CO2
2. Instru Q1 Q2 Q3 Q4	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income trading. Section C question carries 10 marks. Attempt three questions. The all the steps in calculating the required values until four decimal places.	CO2 CO2
2. Instru Q1 Q2 Q3 Q4 1. Each 2. Show	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income trading. Section C question carries 10 marks. Attempt three questions. Tall the steps in calculating the required values until four decimal places. Suppose that HUL issued a bond that has eight years remaining	CO2 CO2
2. Instru Q1 Q2 Q3 Q4 1. Each 2. Show	A) True B) False Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income trading. Section C question carries 10 marks. Attempt three questions. The steps in calculating the required values until four decimal places. Suppose that HUL issued a bond that has eight years remaining until maturity, a \$1000 face value, and a 5% coupon rate with	CO2 CO2
2. Instru Q1 Q2 Q3 Q4 1. Each 2. Show	Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income trading. Section C question carries 10 marks. Attempt three questions. Tall the steps in calculating the required values until four decimal places. Suppose that HUL issued a bond that has eight years remaining until maturity, a \$1000 face value, and a 5% coupon rate with annual coupon payments. If the current market interest rate is	CO2 CO2
2. Instru Q1 Q2 Q3 Q4 1. Each 2. Show	Section B question carries 5 marks. uctions: Write short answers. Explain the properties concerning the price volatility of a straight bond. Explain- yield to call, and yield to put. Write the formula to calculate the price of the ZCB. Explain the credit spread and its significance in fixed income trading. Section C question carries 10 marks. Attempt three questions. Vall the steps in calculating the required values until four decimal places Suppose that HUL issued a bond that has eight years remaining until maturity, a \$1000 face value, and a 5% coupon rate with annual coupon payments. If the current market interest rate is 2%, what is bond's premium or discount? What if the current	CO2 CO2

	coupon, by what percentage will the price of the bond change if its yield to maturity decreases by 1%?				
	tts yield to matarity deol cases 27 1701				
Q3	Fixed income securities market face certain risks. Describe risks	CO3			
	associated with investments in fixed income instruments.				
	OR				
	Explain the steps required in valuation of bonds. Clearly state role				
	of various inputs used in bond valuation.				
	Section D				
1. Each que	estion carries 15 marks.				
Show all the steps in calculating the required values until four decimal places.					
Q1	You are given that the coupon rate is 8%, term of bond issue is 5	CO4			
	years, YTM (initial) is 9%, Face value of the bond is INR 1000.				
	Calculate the duration and the convexity of the bond if the yield				
	changes by 50 basis points.				
	OR				
	You are given that the coupon rate is 12%, term of bond issue is				
	10 years, discount factor to be used for bond valuation is 11%,				
	and maturity value of the bond is INR 1000. Compute the price of				
	the bond today and one year from today.				
Q2	The economic crisis affects returns from fixed income securities.	CO4			
	Write impact of economic crisis such as sub-prime crisis on bond				
	markets and state the reasons for investing in bond market				
	during recession.				