



Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) -201306

POST GRADUATE DIPLOMA IN MANAGEMENT (2023-25) END TERM EXAMINATION (TERM -V)

Subject Name: FIXED INCOME SECURITIES Sub. Code: PGF09 Marks: 40

Time: 02.00 hrs Max

Note: All questions are compulsory. Section A carries 12 marks: 6 questions of 2 marks each, Section B carries 18 marks having 3 questions (with internal choice question in each) of 6 marks each and Section C carries 10 marks one Case Study having 2 questions of 5 marks each.

SECTION - A				
Attempt all questions. All questions are compulsory. $2 \times 6 = 12$ Marks				
Questions	СО	Bloom's Level		
Q. 1: (A). Define fixed income securitiesQ. 1: (B). Describe are the main participants in the fixed income markets	1 1	1 2		
Q. 1: (C). Explain any two types of bonds with examples.	1	2		
Q. 1: (D) Explain how to price a zero-coupon bond with a numerical example for a bond maturing in 10 years with a yield of 4%	2 2 2	3 3 3		
Q. 1: (E) A \$1,000 par bond with an annual coupon has only 1 year until maturity. Its current yield is 6.713% and its yield to maturity is 10%. What is the price of the bond?				
Q. 1: (F) Differentiate between yield to call and YTM (three questions from CO1 and CO2)				
<u>SECTION – B</u>				
All questions are compulsory (Each question has an internal choice. Attempt anyone (either A or B) from the internal choice) $6 \times 3 = 18$ Marks				
Questions	<u>CO</u>	Bloom's		
 Q. 2: (A). Differentiate between liquidity risk, interest rate risk and volatility risk and explain how they impact investments in bonds. Or Q. 2: (B). Describe the features of bonds with relevant examples and how they influence pricing of bonds 	1	Level 2		
(internal choices with two questions corresponding to the same CO)				
Q. 3: (A). Differentiate between duration and modified duration. Evaluate their importance in bond price volatility. Calculate the duration and modified duration for a bond with a face value of \$1,000, a coupon rate of 8% paid annually, a yield of 7%, and maturing in 3 years Or	3	4,5		
Q. 3: (B). A bond with a face value of \$1,000 has a coupon rate of 7% paid annually and a yield of 6%. It matures in 4 years. Calculate the bond's				

 A bond issued has the following information: Trade value (Settlement) date: 12-Aug-2020 		
Q. 5: Case Study:	2	3
Questions	СО	Bloom's Level
Read the case and answer the questions 5×02	= 10 N	Iarks
(internal choices with two questions corresponding to the same CO)		
Or Q. 4: (B) Explain the concept of convexity in bond pricing and evaluate its effects on price-yield sensitivity.	3	
Q. 4: (A) Discuss and analyse the difference between price volatility of option-free bonds and callable bonds. Why are callable bonds more sensitive to interest rate movements	2	4,5
(internal choices with two questions corresponding to the same CO)		
duration and convexity		

Questions:

Q. 5: (**A**). Calculate both the clean price and dirty price (use discounted cash flow method)

Q. 5: (B). Explain the difference between the clean price and dirty price. Why is this distinction important for investors?

(Entire Sec C to be assigned one CO. Both questions corresponding to the same CO)

Kindly fill the total marks allocated to each CO's in the table below:

COs	Question No.	Marks Allocated
CO1	Q.1A)1B)1C) Q 2	6+6
CO2	Q.1D)1E)1F) Q 5	6+10
CO3	Q 3, Q4	6+6
CO4		
CO5		
CO6		

(Please ensure the conformity of the CO wise marks allocation as per your TLEP.)

Blooms Taxonomy Levels given below for your ready reference:

L1= Remembering L2= Understanding L3= Apply L4= Analyze L5= Evaluate L6= Create