Fixed Income Securities

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Chapter-8 Income Securities Fixed Concept: Those securities whose income is fixed at the time of issue are called fixed income securities. Fixed income securities can be classified into following two types according to their life or maturity. 1. Short term fixed income securities (money market instruments) 2. Long term fixed income securities (capital market Instruments) Examples of short term fixed income securities: 1. Treasury Bin (T-Bin) 2. Commercial paper 3. Certificate of Deposit (CD) 4. Banker's Acceptance (BA) Repurchase Agreement (Repo) * Treasury Bill: -> Issued at discount and Redeemed at par. > Discount Yield (D) / Bank Discount Yield (BDY) | Bank Discount Rate

D = Face val	ue- purchase price y 360
	ace value 1 t
	Frequency Carcotional In
	Where.
	Discount Rc. = FV-PP
20	t = Term to maturity
> Bond Equivalen	t Yield (BEY) / Coupon Equivalent Yield
Annual Equit	
and the state of the	Opening the particular and the second
BEY = F	ace value - purchase price x 365
	purchase price t
State of the state of the	The Belleville College Control of the College
> Maturity of 7-1	of in the state of
9 ,	13 weeks -> go days
The state of the s	26 weeks -> 180 days
	52 weeks -> 260 days
	0
> T-Bin Quotation:	
	Dealers
Ray San	
V	
Bid	Ask
Purchasing price of I	
	1 10
(selling price of In	restor) (Yurchase price of Investor)

Calculation of Ask price. Suppose FV= Rs. 1000 0.0555 = 1000 - P X 360 op = Rs. 973. 79 (selling price of dealer or purchase price of investor, of Degler's Spread = Rs. price of Ask - Rs. price of Bid = 973.79 - 973.69 = Rs. 0.10 · Change (-0.03) ⇒ It indicates the difference between the given bid and previous day's bid. . o. previous day's Bid = Given bid - change = 5.57 - (-0.03) = 5.57+0.03 = 5.60 · Ask Yield (5.79) => It is the annualized rate of return to be earned from the given T-bill of the would purchase the given f-bill on given ask price and hold it until maturity. It is also called Bond Equivalent Yield (BEY).

Calculation of	+ Ask Yield:
oo Ask	Yield = FV-Py 365
P. P. Dan	PXt
	= 1000 - 973 · 79 , 365
	973.79 170
-	= 5.79%
	V0000 000 000
roblem g.1	
soll	and the second s
Given:	
Faceval	ue = Rs. 200,000
Price	= Rs.96,000
Days +	o maturity = 180 days
a. 180-days Di	scount rate = Face value - Price
0	Face value
	= 100,000 - 96,000
	100,000 = 4 %
b. Annual Dis	count rate = Face value - Price , 360
1	Face value ^ t
	= 100,000 - 96,000 x 360
	100,000 , 180
	= 8 %
257	

C. 180-days Yield or HPF	Price Price	2
	= 100,000-	96,000
	96,0	100 = 4.17/8
d. Annual Equivalent Yiel	d = Face value-	Price y 365
a shirted Edutation Lies	Price	· t
	= 100,000 - 96	1000 × 365
	96,000	^ 100
	= 8.45 %	
		71000
Problem 8.2		A state Frides
sot,	J	n granger
Given:	Protest Edition	appear of protest
Face Value = Rs	. 25,000	
Maturity pézio	d(1) = 91 days	the still or to be a
. Bank Biscount		%
10 july 10		
a. Price of T-bill =?	5-1	
D= Face va	lue-price x	360
A PARTY OF	ace value "	t
0.06 = 25,000	- Price , 36	0
	5,000 / 9.	
00 Price =	Rs. 24620.83	

b. 91-days HPR = Face value - price
Price
= 25000 - 24620.83
24620.83
. = 1.54 %
the state of the s
c. Bond equivalent Yield = Face value - Price x 365
Price t
= 25000 - 24620.83 x 365
24620.83 91
= 6.17 %
365
d. Effective annual yield = [1+HPR] t-1
= [J+0.0154] 91-1
$= (1+0.0154)^{-91}$
= 6.32 %
3011/2001 (8 ME/18 # 351) SWA 36 861 W
Problem 8:3
Solu
a. Bid is an annualized discount percentage at which the
dealer is willing to purchase the given T-bill on
the day of quotation whereas ask is the annualized
discount hercentage at which the dealer is willing
to sell the given T-bill on the day of quotation.
0 0 1
b. The change of - 0.03 means the current days price has
been declined by 0.03% in comparision of previous day's pr

c. 5.78 %. is the annualized yield.
Problem 8.4
Solp
No division of the second
a. Coupon Interest Rate = 93/8 = 9.375 %.
Annual Interest = 1000x0.09375 = Rs.93.75
semi-annual interest = I = 93.75
2 2 = Rs. 46.875
b Coolons I
b. The term-to-maturity of the bond from February 2006
is 10 pears (2016-2006)
C. Ask = (106):(30) Points
3-101113-7 110
Rs. price of Ask = (106+30) % of face Value
= 106.9375 % of 1000
= Rs. 1069.375
d. Dealer's spread = Rs. price of Ask - Rs. price of Bid = 1069.375 - 1068.125 = Rs. 1.25
= 1069.375 - 1068.125
= Rs. 1.25
Strict as my stock shared to the air a word of the service of

of and is on a factor of

(s. price of Bid = (106+26) % of Face Value = 106.8125% of 1000	_
D	
	7
= Rs.1068.125	
2076 Q.No. 13	
Soln service services to service the service services to service services services to service services to service services to service services services to service services services to service services to service services to service services servic	1
(NIB) (95)(20) -> 2020	
Semi-annyaly	
Abbringte Coupon ogte	-
form J of Name	
Shrings three serious and the real sides of the control of	-45
1. The coupon rate is 9%. The coupon rate is paid	1
twice in a year ite semi-annually.	110
Tall land and an analysis	
The bond matures in 2020. 1200 bonds were traded o	m
that day.	
Close = 101 %	-
. Close = 101 78	7
De mice of close = 10166 4 5 Com Value	
Rs. price of close = 101% % of face value	
= 101.75 % 07 1000	- 1
= Rs. 1017.5	-

The current yield is calculated as follows:
Current Yield = Interest x100
close price
= 1000×0.09 X100
1017-2
= 8.85 %
d. The net change -1/8 means that the closing price
on the day of quotation has been declined by
on the day of quotation has been declined by 48 (0.125%) percentage of Rs. 4000 as compared
to previous days closing price.
e. Previous Day's close price = close price - net change
1017.5 - (-0.125 % 0 1000)
· 1017·5 + J·25
= Rs. 1018.75
raise behave the skippe on A. Just, be shipped food as the
2058 Func
Soli
(IBM (GB)(98) -> 1998
semi annually
Short form Coupon rate
name

q. Interest on April 1 = 1000x 0.09 x 3/12 = Rs. 22.5
6. Close = 101.5
Rs. price of close = 101.5 % of face value
= 101.2% of 1000
= Rs. 1015
c. The bond majures in 1998
Prastice Yourself
2068 Q.N.7
2065 Q.N.79
2063 & No.7
THE HEAD TO BE AND SECTION AS A SECTION OF THE PARTY OF T
2068 Q. NO.7
. 30]7
9. Annual Interest = 1000 X 0.08725 = Rs. 81.25
6 10001 D to book = 10V81 05 - 80 8/10 E
Total Interest for 10 bonds = 10x 81.25 = Rs. 812.5
b. The bond matures in 2022.
c. The current yield 7.9 means that annual coupon amout
of Rs. 81.25 is the divisible of close price Rs. 1030.

Current yield is calculated as follows: Current Yield = Interest close price 81.25 103 % of 1000 81.25 7030 = 7.9% close = 103 d. % close price = 103 % = 1000 = Rs. 1030 e. The net change of +1/2 indicates that the today closing price has been increased by 1/2 the previous day close price. LANDI

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