

11.	Raper to 010.					
79.33	hubat will be the value of those securities in one year if					
	the required return as 6 per cent?					
7 11 1	1 1 1000					
	$(1+0.015)^{24} + \frac{1000}{(1+0.015)^{24}} = 1100.15$					
. 6.	$\frac{1 - \frac{1}{(1 + 0.015)^{24}} + \frac{1000}{(1 + 0.015)^{24}} = 1100.15}{0.015}$					
	1.0. ± 1100.15					
12.	In 2014, Sursten Inc. Issueda € 150 par value preferred					
	stock that pays on & per cent annual dividend. Que to					
	changes in the avorall economy and in the company's					
	financial condition amestors are now requiring a					
1 14 1	15 per cont return, what price would you be willing to pay					
	for a snare of the preferred if you receive your first					
	dividend one year from now?					
5, 1000						
	Dividend = 0.08 x € 150 = £12					
	1. Price = 12 = £80.					
13.	using the constant growth model, a decrease in the required					
	rate of return from 15 to 13 per cont combined with an					
1	merease in the growth rate from 5 to 6 per cont would					
	cause the price to					
	b. to vise loss than 50 per cont					
	$\frac{90}{100} = \frac{12}{100} = \frac{100}{100} (1+92) / (162-92) - 1$					
	$\frac{900}{100} = \frac{P_2}{P_1} = \frac{[(0)(1+92)/(k_2-92)]}{[(0)(1+91)/(k_1-91)]} - 1$					
1						
	$= [(D_0)(1+0.06)/(0.13-0.06)]_{-4}$					
	$= \mathbb{E}(D_0)(1+0.06)/(0.13-0.06)] - 1$ $\mathbb{E}(D_0)(1+0.05)/(0.15-0.05)]$					
	[[(00)(1+0.05)/(0.15-0.05)]					

14. Davenport Corporation's last dividend was £2.70 \$

the director's expect to maintain the historic 3 per cent
annual rate of growth. you plan to purchase the stock today
because you feel that the growth rate will increase to

5 per cent for the next three years & the stock will then reach
£25 per sname.

How much should you be willing to pay for the Stock of you required a 17 percent return?

$$P = 2.7(1.05) + 2.7(1.05)^{2} + 2.7(1.05)^{3} + 25.00$$

$$1.17 (1.17)^{2} (1.17)^{3} (1.17)^{3}$$

= 22.16 /. b. £22.16.

15. Refer to 1212. How much should you be willing to pay for the stock if you feel that 5 per cent growth rate can be maintained andefinitely & you require a 17 per cent return?

P= (2,70×1,05) + (0.17-0.05) = f 23.63

Question 2:

Earnings per share: last year \$10.00

-Dividends per share: last year \$6.00

Estimated earnings per share! this year \$11.00

Required rate of return 12%

expected salos price at end of year \$132.00

The Baron Basket Ball Company (BBC) earned \$10 a share last year and paid a dividend of \$6 a share. Next year, you expect BBC to earn \$11 & continue its payout ratio.

Assume that you expect to soll the stock for \$132 a

year from now. If you require 12% on this stock;

how much would you be willing to pay for it?

Since the last dividend payout ratio = \$6.00 = 60% \$10.00

and assuming you maintain the same payout vahio, then dividends per share at the end of the year is;

EPS x Payout = \$11.00 x 60%

= \$6.60

. The present value of BBC's sherro is!

Value = $\frac{$6.60}{(1+0.12)} + \frac{$132.00}{(1+0.12)} = $5.89 + $117.86 = 123.75

50, \$123.75 is the maximum price you would be willing to pay for BBC's stock.

Question 3

	uestion 3						
-	The meane statement and Balance shoot of Gambit						
	me are given below. You are asked to we me						
	pividend Discount model (DDM) to determine The value of						
Cambit Inc. You anticipate that Gambit's earnings &							
	dividends will grow	at 325	% for two years & 1	nen 13%	therefore		
income Sta	tement 2012(f)	2013	Balance Shoot	2012	2013		
Revenu			Current assets	Maria	WOOD		
Depreci	ah'on 20		Net Property,	474	439		
	erating onts :368		Plant & equipment				
	before taxes 86			675	815		
Taxes			Long-term deht	0	0		
	ome 60		tord liabilities	St	0141		
	ends 18	24	shareholders equity	618	674		
	gs per share £0.744	£0952	Total liabilities P.	675	815		
	nd per share \$0.214		equity				
			capital Expenditure	34	38		
)	Required rate of	14%			
			return on equity	1			
0,			Growth rate of indu	my 13%.			
			Industry PlE valo	26			
	Calculate the current value of a share of Gambit						
	stock by using a two-stage. DDM and the data from the						
Income Statement and the balance Sheet. (Hint; find what proportion of Earnings is paid ou							
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
W. A. S. LOSS III					The Samuel		

Year 2013 Ts t=0 and 2014 Ts t=1, & SD on.... Eo=f0.952 Do=f0.286

 $\frac{D_0}{E_0} = 0.30$

(The same valio is obtained, for comparison purposes, from the

 $V_0 = \frac{D_1}{(1+k)^2} + \frac{D_2}{(1+k)^2} + \frac{(k-9)}{(1+k)^2}$

 $E_1 = E_0 (1+0.82)' = £0.952 \times 1.32 = £1.2566$ $D_1 = E_1 \times 0.3 = £1.2566 \times 0.3 = £0.3770$

 $E_2 = E_0 (1+0.32)^2 = \pm 1.6588$ $D_2 = E_2 \times 0.3 = \pm 0.4976$

 $E_3 = E_0 (1 + 0.32)^2 \times (1 + 13)^1 = 1.8744$ $D_3 = E_3 \times 0.3 = \pm 0.5623$

 $V_0 = 0.3770 + 0.4976 + \frac{0.5623}{(0.14-0.13)} = 43.98$ $C(1+0.14)^1 + (1+0.14)^2 + (1+0.14)^2 = 3.98$

The value of one Gambit stock is £43.98