DCF &

PRESENT VALUE

* TVM OF MONEY

1) ONE RUPEE TODAY VS ONE RUPEE TOMMORROW

· Y= REQUIDED RATE OF RETURN COPPURTUNITY COST)

2. INAGINE YOU INVEST EL TODAY AT RATE Y-)

AFTER I YEAR

3. FLIP IT: IF YOU'II RECEIVE ZI IN A YEAR, HOW MUCH

IS IT WORTH TODAY!

SOLVE FOR PV:

HERE DIVISION OPERATION ACT AS A UNDOING GROW

3

3

3

3

PRESENT VALUE IS THE INVERSE OF GROWTH AND

COMPOUNDING

FV= 1*(1+v)-) Fv=- bv. (1+n) -) (1+n) -) pv. (1+n)n

PV = 1 -> PV = FV. -) FV n -7 FV + FV CITY CITY CITY

* MUTLIPLE PERIOD COMPOUNDING

) IF A PAYMENT OF ZI COHES IN NYEARS

2) NOW CONSIDER DIFFERENT CASH FLOW CY, C2, C3.

ARRIVING IN YEARS 1,2,3.

=7 TIME SHIFTING A PAYMENT BY 1 EXTRA YEAR MULTIPL
IFS DENONINATOR (1+v)
THE CTROOM & GODDAN GROWTH
1) ASSUME CASH FLOW GROW AT RATE G
$C_t = C_t \left(t + g \right)^{t-1}$
2) SUBSTITUTE IN TO FORHULA
$Pv = \sum_{t=1}^{\infty} \frac{C_1(1+g)^{t-1}}{(1+g')^t}$
3) FACTOR TEEMS REWRITE AS GEOMETRIC SERIES
Pv= Ct
v-9 as the very sent that the last
* ENTERPRISE DOF STRUCTURE
1) LINK FREE CASH FLOW CFCF) TO ENTERPRISE VALUE
had a second sec
EV = FCF2 TV CI+WACC)h
t=1 (I+WACG) (I+WACG)
CONTRACT OF FEMALEST AND ALLES
* ENTERPRISE DOF STRUCTURE
ENTERPRISE VALUE IS SIMPLY ALL FUTURE FREE
CASH FLOW DISCOUNTED TO TOPAH
THE THE TOACH AT STATUTED A
EV = S FCF + TV. t=1 (ITWACC) t (ITWACC)^n
tel CITWACC) CITWACC)
ALAMER SINKLY GARD
· ECF - FOFE CASHFLOW IN YEAR &

少少了了了了了了了了了了了了了了了了了了 是是是是

· WACC = WEIGHTED AVERAGE COST OF CAPITAL CDISCOUNT RATE FOR ALL PROVIDERS?

TV = TERHINAL VALUE (FUTURE CASHELOW BEYOND N, SUMMARIZED?

TERHINAL VALUE PROOF:

· FCFn+1= FCF (1+9)

· 9 - DERPETUAL GROWTH RATE

TU AT YEAR N AND DISCOUNT BACK B+ (I+WACE)

3) WHY WACC IS USED

· EQUITY HOLDERS EXPECT Ye.

· DEBT HOLDERS EXPECT Vd, ADJUSTED FOR TAX

FIRM VALUE 13 FINANCIAL PROPORTIONALLY BY EQUITY E AND DEBT O.