Question 21. American -style options give you the benefits of upside price movements without the downside of downward price movements and so you should generally try to hold onto them to maximise your goins.

Question 22. initial angel ownership = \$2001 = 20% Post venture capital angel ownership =  $\frac{65M}{80M} \times 20\%$ = 16.25% \$80M × 16.25% = \$13M return = 13M-200r = 6400/6 cr 64x

Question 23. The market feedback hypothesi's proposes that issurs are uncertain of the true value of their 7/6 firm and thus try to discover the true value via an initial book - building process involving the market. However, IPOs are underpriced as the market feedback hypothesis states that this is necessing to induce institutional investors to reveal the true value of the firm.

Question 24. Cost = B180,000, 8 years SV = \$15,250 te=0.30 after-tax cost of barrowing = 0.1 × (1-0.3) = 0.07 Lease payment tax shield = LP × 0.3

Depreciation tax shield = 0.3× (180,000) = 6750 Tax on gain from sale = (\$15,250-0) x0.3 =+4575 NPV Lease = 0 5180 000 - LP + 0.3 LP + 0.3 LP - LP - 6750

1.07

+ 1.072 + 1.073 + 1.075  $+\frac{1}{1.07}$   $+\frac{1.07}{1.07}$   $+\frac{1.07}{1.07}$   $+\frac{1.078}{1.078}$ Solve for LP: LP=529844.80

Question 25. 5M 5/0 \$18 = \$90M market cap rouse \$1M via look shares at \$10 each Now \$91M market cap with 5.1M shares  $\frac{41}{5.1}$  = 17.8431 financial institution gain = existing shareholder loss = 90M - 51/2.8431 = 0.7845M = \$784500

Question 26. If lenders believe a company is likely to

Jo bankrupt then these lenders will charge higher
interest rates to cover potential bankruptcy costs.
These higher interest pates are 'paid' for by
the shareholders in the form of more expensive
debt which means less money available for shareholders. Question 27.

$$V = $2,000,000$$
  $E = $3,000,000$   $G = 0.08$   $E = 0.15$   $E = 0.30$ 

$$WACC = F_0 \left( 1 - E_c \right) \frac{D}{D+E} + F_c D+E$$

$$= 0.08 \times 0.7 \times \frac{2M}{5M} + 0.15 \times \frac{3M}{5M}$$

Question 28.

$$\frac{P_{com} = $15}{Div = $2}$$
  $\frac{t_{cg} = 0.1}{t_{d} = 0.2}$ 

Question 29.

initial investment = \$500/

6= number of biles sold

NPV = -500,000 + 50xb (1- 115) + 200,000

NPV=0, solve for b

 $\frac{506(1-\frac{1}{1.15})=500,000-\frac{200,000}{1.15}$ 

b = 0.1 (500,000 - 200,000)

50

(1 (.13)

6 = 1982.78  $\approx 1982$ 

the number of bicycles sold needs to fall to 1982 or by 5018 or by 271.69%

Question 30. Old IRR = 19.7% new IRR = 21.2% 1.5% improvement

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2017															
21.2%				٨.											
IRR - Assuming Exit in 2017E								IRR = Assuming 0.0x Entry Multiple							
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				33.6%	35.6%			7.0x		18 4%	16.8%	15.7%	14.8%		
		23.5%	25.7%	27.8%	20.7%		Exit				19.1%				
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8.5x	13.3%	15.5%	17.5%	19.5%	21.3%			fi.fix							
9.0x	10.3%	12.4%	14.4%	16.3%	18.1%			9.0x	36.2%	29.6%	25.1%	22.1%	19.9%		
							,	,							
	21.2% 21.2% 7.0x 7.5x 8.0x 8.5x	21.2%  21.2%  7.0x  7.0x  26.7%  2.1.2%  8.0x  16.8%  8.5x  13.3%	21.2%    IRR = Assuming	TRR - Assuming Exit in 2017E	Text   Text	Text   Text	The image   The	The image	Tok   Tok	The color of the	The color of the	TRR - Assuming Exit in 2017E	TRR - Assuming Exit in 2017E	TRR - Assuming Exit in 2017E	The color of the