

Entrepreneurial Finance and Venture Capital

In class Test 2

March 13th, 2018

Name	
Number	

WRITE YOUR NAME AND NUMBER IN ALL PAGES

This test consists of 3 questions.
You have <u>80 minutes</u> to solve this test.
This is a closed book test. Calculators are allowed. **Good luck!**

Name: Number:

Group 1: Multiple choice (30 points)

(no explanation needed)

- A. Which of the following tools do VCs rely on to screen deals and minimize adverse selection? (6 points)
 - i. Due diligence
 - ii. Pre-emption rights
 - iii. Information rights
 - iv. Staging investments
- B. Which of the following are disadvantages of having a VC as a seed investor, instead of an angel? (6 points)
 - i. If the round is done using a convertible note, VC will demand a lower cap
 - ii. If the VC does not invest in a future round, other investors will interpret that negatively
 - iii. The risk of failing to raise a future round even if things are going well will be higher
- C. Weighted average anti-dilution protection is more favorable to founders than full ratchet antidilution protection because (6 points)
 - i. The new conversion price takes into account the relative stakes of founders and protected investors
 - ii. The new conversion price takes into account the relative size of the new round
- D. A VC wants to exit an investment against the wishes of the remaining investors and founders. Which of the following provisions may enable the VC to do that? (6 points)
 - i. Preemption rights
 - ii. Co-sale rights
 - iii. Drag-along rights
 - iv. Redemption rights
- E. Which of the following deals would you prefer as an investor, holding everything else constant? (6 points)
 - i. Convertible preferred stock with a 2X liquidation preference
 - ii. Participating convertible preferred stock with a 1X liquidation preference and a participation cap of 2X the investment amount

ANSWER:	
A	D
В	Е
C	

Group 2 (49 points)

A new venture wants to raise 5 million euros from a VC. The VC expects the company to be sold for 80
million euros in 4 years, and is targeting an IRR of 40%. There are 1 million shares outstanding before the
deal. Unless otherwise stated, assume all deals are done in convertible preferred stock with a liquidation
preference of 1X.

<u>A.</u> V	Vhat equity stake					
B. I-	How many shares	does the VC	get? What is th	e implied share	e price? (7 poin	ts)
						,
						,

E.	poorly money	se that the first VC invests under the terms you calculated in A), but the company performs after the deal. When the time comes to raise the next round, the second VC insists on a prevaluation of 5 million in exchange for an investment of 4 million, and the deal is agreed on the erms. Calculate what the first VC's equity stake after this round will be if the first VC has: No anti-dilution protection (7 points)
	ii.	Full-ratchet anti-dilution protection (Hint: note that the deal with the second round VC determines a valuation for the round, not a share price. The share price is itself affected by the anti-dilution protection.) (7 points)
	11.	
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Oldup 3 (21 politis)	Group	3	(21	points))
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A seed investor puts 500,000 euros into a convertible note, to be converted when a series A round takes place. The series A investor then takes a 30% stake in return for 5 million euros. Calculate the stake that the seed investor gets at the time of the series A, under the following scenarios:

	The convertible note has no discount and no cap (7 points)
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В.	Γhe convertible note has a 30% discount and no cap (7 points)

	C.	The convertible note has a 30% discount and a 6 million cap (7 points)
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Draft paper