## 程序代写代做 CS编程辅导



WeChat: cstutorcs
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## Assignment Project Exam Help

Economics of Corporate Finance

Email: tutorcs@163.com

QQ: 749389476
Duration: TWO HOURS

https://tutorcs.com

Answer any 3 questions out of 4. All questions are worth equal marks.

Materials to be supplied on request: None.

Approved calculators are permitted.

This is a closed note paper.

#### Question 1 程序代写代做 CS编程辅导

Suppose you are an investor seeking to find new opportunities to invest. You have identified two firms: L1 Composition is debt free, while BT Enterprises is high the firm is run by a manager/entrepreneur, who can exert two levels of effort: Operation is debt free, while BT either a high return  $R^F \geq 0$ , with  $R^F < R^S$ . High effort by the manager increases where the firm realizes a high return.

- (a) Suppose ther which markets, no taxes, and no bankruptcy. Suppose also that you (and other outside investors) can perfectly observe the effort exerted by the managers of the two firms, and you can write a contract specifying the effort you want the managers wexten Does at a mount the trace of Such firm affect its market value? Explain your answer. (30% of the marks)
- (b) Suppose now you and other outside investors cannot observe the effort exerted by the managers of the two firms. The project undertaken by the manager of each firm yields either a high return  $R^S > 0$  or a low return  $R^F = 0$ . Does the amount of leverage of each firm affect its market value? If yes, is there are optimal amount of debt to be issued? Explain your answer.
- (c) Let us continue with the framework described in point (b) above. Suppose  $R^F > 0$ , with with  $R^F < 10^S$ . Does the oncy of each firm affect its market value? If yes, is there an optimal amount of debt to be issued? Explain your answer. (40% of the marks)

### Question 2 程序代写代做 CS编程辅导

An entrepreneur has to finance a project of fixed size I. The entrepreneur has "cash-on-hand" pject, the entrepreneur (that is, the borrower) must A, where A < I. borrow I - A from n, the project either succeeds, in which case it yields it delivers a zero return. The probability of success a return R > 0, or depends on the effective repreneur: if the entrepreneur exerts high effort, the the entrepreneur exerts low effort, the probability of probability of succ  $p_L > 0$ . If the entrepreneur exerts low effort, she success is equal to also obtains a private benefit b 0, while there is no private benefit when the entrepreneur exerts high effort. Define as  $R_b$  the amount of profit going to the entrepreneur, and as  $R_l$ the amount of profit roing to the lenders in case of success, where  $R = R_b + R_l$ . We assume both players obtain zero in ease the project fails. All the players are risk neutral and there is limited liability for the entrepreneur. Lenders behave competitively, and both entrepreneur and lenders receive zero if the project fails. Assignment Project Exam Help

(a) Write down the "break-even constraint" for the lenders  $(IR_l)$  assuming that the entrepreneur exerts high effort. (10% of the marks)

(b) Write down the entrepreneur's incentive compatibility constraint  $(IC_b)$  and derive the minimum level of  $R_b$  such that the entrepreneur exerts high effort. (10% of the marks) 00.749389476

- (c) What is the highest level of income that the entrepreneur can pledge to investors? (10% of the marks)
- (d) Compute the manner evel truspon and a Compute the manner with low cash-on-hand likely to be denied financing? Explain your answer. (10% of the marks)
- (e) Let us define as  $R_b^S$  and  $R_b^F$  the return for the entrepreneur in case of success and failure, respectively. Recall that the limited liability for the entrepreneur implies that  $R_b^S \geq 0$  and  $R_b^F \geq 0$ . Suppose the entrepreneur sets  $R_b^F > 0$ . Does the pledgeable income increase or decrease with respect to the case in which  $R_b^F = 0$ ? Show your work. (20% of the marks)
- (f) Let us now assume that lenders have market power. More specifically, lenders make a take-it-or-leave-it offer to the entrepreneur. This offer states the return  $R_b$  for the borrower in case of success, provided the project is financed. We assume that both lenders and entrepreneur receive zero in case of failure. If the entrepreneur rejects the offer, the project is not financed and the entrepreneur's utility is equal to A (her

"cash-on-hand Windown the constraint maximum properties, lenders, assuming that lenders want to induce the entrepreneur to exert high effort. (10% of the marks)

k introduced in point (f) above. Suppose  $A < p_H \frac{B}{\Delta p}$ . Determine the continuous characteristic continuous point (f) above. Suppose  $A < p_H \frac{B}{\Delta p}$ . Chosen by lenders. What is the minimum value of "cash-on-han" the continuous point (f) above. Suppose  $A < p_H \frac{B}{\Delta p}$ . The continuous point (f) above. Suppose  $A < p_H \frac{B}{\Delta p}$ . The continuous point (f) above. Suppose  $A < p_H \frac{B}{\Delta p}$ . The continuous point (f) above. Suppose  $A < p_H \frac{B}{\Delta p}$ .

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#### Question 3 程序代写代做 CS编程辅导

An entrepreneur has to finance a project of fixed size I. The entrepreneur has no cash-onct, the entrepreneur must borrow I from lenders. If hand (A=0). To in which case it yields a return R > 0, or fails, in undertaken, the pr entrepreneur (borrower) can be one of two types. A which case it delive "good" borrower h  $\blacksquare$ ccess equal to p. A "bad" borrower has a probability of success equal to e as  $R_b$  the borrower's level of compensation when the players are risk neutral and there is limited liability project is financed competitively, and both borrower and lenders receive zero for the borrower. if the project fails.

## Assume pR > I > WeChat: cstutorcs

- (a) Suppose first that lenders have complete knowledge of the borrower's type. Write down the lenders' break-even constraint when the borrower is (i) "good" or (ii) "bad". (10% of the marks Assignment Project Exam Help
- (b) What is the highest level of compensation each type of borrower can obtain? Do both types of borrower obtain financing? (10% of the marks)
- (c) Suppose now that lenders cannot observe the borrower's type. Lenders believe the borrower is "good" with probability  $\alpha$ , and "bad" with probability  $1 \alpha$ . Comment on the effect of asymmetric information or (i) the availability of credit to both types of borrower, and (i) a loan is granted, on the compensation the two types of borrower obtain from undertaking the project. (10% of the marks)
- (d) Suppose now that the entreprenent charty gwas Opojet that, without further investment, will succeed with either probability p (if "good") or probability q (if "bad"). In case of success, the project yields a return R. The project yields a zero return otherwise. Lenders believe the project is "good" with probability  $\alpha$ , and "bad" with probability  $1-\alpha$ . We define  $m=\alpha p+(1-\alpha)q$ .
  - We assume the entrepreneur owns all shares. If the entrepreneur were to put some of the shares on the market and if the true probability of success is q, are the assets in place over-valued or under-valued? Explain your answer. (10% of the marks)
- (e) Let us continue with the framework in part (d). At a cost J, the entrepreneuer can finance a new project which increases the overall probability of success by an amount  $\tau > 0$ . More specifically, if the new project is financed, the probability of success is either  $p + \tau$  (if the initial project was "good") or  $q + \tau$  (if the initial project was "bad"). If the new project is not financed, the probability of success is either p (if the initial project was "good") or q (if the initial project was "bad").

# We assume: 程序代写代做 CS编程辅导

The entrepre issuing new s investment must be financed by

Write down to the constraint in a separating equilibrium in which only the entreprend the ject issue shares. (10% of the marks)

- (f) What is the 'the third that the utility from issuing shares in this separating equilibrium? What what the issuing shares? (20% of the marks)
- (g) In this separating equilibrium, does the value of shares vary as the entrepreneur announces the its of new equity? Explain your answer (30% of the marks)

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## Question 4 程序代写代做 CS编程辅导

Over the last decades, group lending has had a significant impact on poor communities' access to sources of finances of financ

(a) Describe the control of group lending as compared to standard lending to individuals.

(b) Describe and **Fig. 1** ionales that make group lending more effective than "individual" cess to finance to borrowers with weak balance sheets. (80% of the marks)

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