

國立中央大學103學年度碩士班考試入學試題卷

所別：企業管理學系碩士班 一般己組(一般生) 科目：管理會計學 共 2 頁 第 1 頁

本科考試可使用計算器，廠牌、功能不拘

*請在試卷答案卷(卡)內作答

1. Central Company manufactures running shoes and its projected operating income for the coming year based on sales of 240,000 units, is as follows:

Sales.....	\$24,000,000
Operating expenses:	
Variable expenses.....	\$6,000,000
Fixed expenses.....	<u>9,000,000</u>
Total expenses.....	<u>15,000,000</u>
Operating income.....	<u>\$9,000,000</u>

Required:

- Calculate the company's break-even point for the year in sales dollars. (6%)
- What is the firm's margin of safety for the year? (6%)
- Compute the company's operating leverage factor based on the budgeted sales volume for the year. (6%)
- How can a break-even point analysis be used in a capital-budgeting decision? (7%)

2. Junda Corporation uses 12 units of part XY23 each month in the production of its product. The cost of manufacturing one unit of the product is the following:

Direct material.....	\$1,200
Material handling (25% of direct material cost).....	300
Direct labor.....	9,600
Manufacturing overhead (160% of direct labor).....	<u>15,360</u>
Total manufacturing cost.....	<u>\$26,460</u>

Material handling represents the direct variable costs of the Receiving Department that are applied to direct materials and purchased components on the basis of their cost. This is a separate charge in addition to manufacturing overhead. Junda Corporation's annual manufacturing overhead budget is one-third variable and two-thirds fixed. Wang Supply, one of Junda Corporation's reliable vendors, has offered to supply part number XY23 at a unit price of \$16,000.

Required:

- If Junda Corporation purchases the XY23 units from Wang, the capacity Junda Corporation used to manufacture these parts would be idle. Should Junda Corporation decide to purchase the parts from Wang, the unit cost of XY23 would increase (or decrease) by what amount? (8%)
- Assume Junda Corporation is able to rent out all its idle capacity for \$30,000 per month. If Junda Corporation decides to purchase the 12 units from Wang Supply, Junda Corporation's monthly cost for XY23 would increase (or decrease) by what amount? (8%)

參考用

注意：背面有試題

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- c. Assume that Junda Corporation does not wish to commit to a rental agreement but could use its idle capacity to manufacture another product that would contribute \$50,000 per month. If Junda Corporation's management elects to manufacture XY23 in order to maintain quality control, what is the net amount of Junda Corporation's cost from using the space to manufacture part XY23? (9%)
3. The owner of 7-24 is considering an expansion of the business. She has identified two alternatives as follows:
- (1) Build a new store near the train station.
 - (2) Buy and renovate an old building downtown for the new store.

The estimated cash flows from these two alternatives are shown below. The owner of the store uses a 12 % after-tax discount rate.

Investment Proposal	Cash Outflow:	Net After-TAX Cash Inflows	
	Time 0	Years 1-10	Years 11-20
Train station store	\$450,000	\$80,000	\$80,000
Downtown store	200,000	55,000	--

Required:

- a. Compute the net present value (NPV) for each alternative store site. (6%)
 - b. Compute the profitability index (PI) for each alternative. (6%)
 - c. How do the two sites rank in terms of a. NPV and b. PI? (6%)
 - d. Based on your findings in a. and b., what would you recommend to the owner? (7%)
- ($PVIA_{.12, 20} = 7.469$; $PVIA_{.12, 10} = 5.650$)
4. What role does the managerial accounting play in a company? That is, how would managerial accounting help a company to enhance its performance? (13%)
 5. What are the differences and the relationship between cost accounting and managerial accounting? (12%)

參考用

注意：背面有試題