科目:成本與管理會計學

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注意事項:

- 一、 請務必按照題號順序作答,違反者將予扣分。
- 二、 計算題請列出計算過程,沒有列出計算過程者將不予計分。
- 三、 所有計算如果無法整除,請取至小數點後第二位,四捨五入。
- I. Multiple Choice (2% each, 30% total)
- 1. To complete the first setup on a new machine took an employee 320 minutes. Using a 70% cumulative average-time learning curve indicates that the second setup on the new machine is expected to take _____.
- A) 112 minutes B) 128 minutes C) 272 minutes D) 224 minutes

2. Stella Company sells only two products, Product A and Product B.

	Product A	Product B	Total
Selling price	\$50	\$30	
Variable cost per unit	\$20	\$10	
Total fixed costs			\$2,110,000

Stella sells two units of Product A for each unit it sells of Product B. Stella faces a tax rate of 40%. Stella desires a net after-tax income of \$54,000. The breakeven point in units would be ______.

- A) 25,250 units of Product A and 50,500 units of Product B
- B) 27,500 units of Product A and 55,000 units of product B
- C) 50,500 units of Product A and 25,250 units of Product B
- D) 55,000 units of Product A and 27,500 units of Product B
- 3. A well-designed activity-based cost system helps managers make better decisions because information derived from an ABC analysis ______.
- A) can be used to eliminate nonvalue-added activities B) is easy to analyze and interpret
- C) takes the choices and judgment challenges away from the managers
- D) emphasizes how managers can achieve higher sales
- 4. Sherry and John Enterprises are using the kaizen approach to budgeting for 2018. The budgeted income statement for January 2018 is as follows:

 Sales (168,000 units)
 \$1,080,000

 Less: Cost of goods sold
 650,000

 Gross margin
 430,000

 Operating expenses
 330,000

(includes \$60,000 of fixed costs)

Operating income \$100,000

Under the kaizen approach, cost of goods sold and variable operating expenses are budgeted to decline by 1% per month. What is budgeted cost of goods sold for March 2018?

- A) \$637,065 B) \$656,500 C) \$650,000 D) \$643,500
- 5. Which of the following statements is true of variable overhead costs?
- A) Variable overhead costs always have unused capacity.
- B) Variable overhead costs have no production-volume variance.
- C) Variable overhead costs have no spending variance.
- D) Variable overhead costs have no efficiency variance.

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6. Zebra Corporation currently produces basel	ball caps in an automated process. Ex	rected production per month. Manufacturing
units, direct material costs are \$7.50 per unit,	and manufacturing overnead costs	are \$60,000 per month. Manufacturing
overhead is entirely fixed costs. What is the fl	exible budget for 11,000 and 17,000 u	ooo
A) \$60,000; \$187,500 B) \$60,000; \$105,000 C) \$;142,500; \$187,500 D) \$142,500; \$105,	000
7. Jupiter Corporation incurred fixed manufac	cturing costs of \$18,000 during 2017.	Other information for 2017 includes:
The budgeted denominator level is 2,400) units.	
Units produced total 2,700 units.		
Units sold total 1,600 units.		
Variable cost per unit is \$4		
Beginning inventory is zero.	the hudgeted denominator level	
The fixed manufacturing cost rate is based on	will be as compared to the	operating income under absorption
The operating income using variable costing to	will be as compared to the	newer to the nearest dollar)
costing. (Round any intermediary calculation	s to the hearest cent and your intal al	to one nearest donard
A) lower by \$8,250.00 B) lower by \$2,250.00	C) higher by \$8,250.00 D) higher by 8	\$2,230.00
8. When deciding to accept a one-time-only s	oecial order from a wholesaler, mana	ngement should
A) consider the sunk costs and opportunity co	osts	
B) not consider the special order's impact on the special order's impact on the special order's impact on the special order.	uture prices of their products	
C) determine whether excess capacity is avail	able D) verify past design costs for t	he product
9. Excellent Mugs Inc. produced 1,600,000 un	its in 2017 at a units of output per do	ollar of input cost was \$0.09. Its cost o
input at 2017 prices that would have been use	d in 2016 was \$20,000,000. How mucl	h did the total factor productivity (TFF
increase as a result of 2017 operations?		
A) about 0.1% B) about 12.5% C) about 0.08%	% D) about 0.17%	
10. How is value-engineering relevant to a we	ell done customer profitability analys	sis, especially when an ABC system is
utilized to calculate customer profits (or losse	es)?	
A) ABC will satisfy GAAP and provide input	into value-engineering decisions	
B) ABC offers the opportunity to analyze the	costs of activities assigned to each cu	istomer and to determine if
improvements can be made to optimize profi	ts	
C) customer profitability analysis will reveal	that the cost drivers of less profitable	e customers are the problem and that
value-engineering is the solution		
D) Only value-added activities will be shown	in the cost analysis and thus all othe	er costs will be eliminated via value-
engineering	·	
11. Which of the following statements is true	of sell-or-process-further decisions in	n joint costing?
A) Joint costs incurred before the split-off po	int are relevant in deciding whether t	to process the product further.
B) All separable costs in joint-cost allocations	are incremental costs.	
C) Separable costs incurred before the split-o	ff point are irrelevant in deciding wh	nether to process the product further.
D) Costs that differ between the alternatives	of selling products or processing fur	ther are relevant.
i		
12. An important difference between financia	ıl measures of quality and nonfinanc	ial measures of quality is that
	soful indicators of future long term r	performance, while nonfinancial
A) financial measures of quality tend to be us	serui maicators of future long-term p	ocitorinance, with chammarcan
measures have more of a short-term focus	a market indicators of firture long ton	m performance while financial
B) nonfinancial measures of quality tend to b	e userui maicators of future long-ter	第 2 頁
measures of quality have more of a short-term	n rocus	** プログロー

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- C) nonfinancial measures are generally too subjective to have any long-term value, while financial measures are too objective for taxation purposes
- D) nonfinancial measures are generally too subjective to have any short-term value, while financial measures are too objective to have medium-term value
- 13. Which of the following statements is true of the economic order quantity decision model?
- A) The economic order quantity increases with higher demand and higher carrying costs and decreases with higher ordering costs.
- B) The simplest version of the economic order quantity model assumes there are only ordering costs, carrying costs, stockout costs, and purchasing costs.
- C) It assumes the purchase order lead time is not known with certainty.
- D) The larger the order quantity, the lower the annual relevant ordering costs and the higher the annual relevant carrying costs.
- 14. A transfer-pricing method leads to goal congruence when _____.
- A) there is a price difference in different markets due to market inefficiencies
- B) managers do not act for their own best interest and work for the long-term best interest of the manager's subunit
- C) managers act in their own best interest and the decision is in the long-term best interest of the company
- D) there is a low degree of centralization
- 15. A company which favors the residual income approach to financial performance evaluation wants managers to $_$
- A) concentrate on maximizing an absolute amount of dollars of residual income as opposed to a percentage yield as is the case with ROI
- B) concentrate on maximizing a percentage return in excess of the cost of capital
- C) maximize the investment turnover ratio
- D) maximize return on sales
- II. NCHU Supply Corporation manufactures two models of grooming stations, a standard and a deluxe model. The following activity and cost information has been compiled:

	Number of	Number of	Number of
<u>Product</u>	<u>Setups</u>	Components	Direct Labor Hours
Standard	4	35	550
Deluxe	6	45	250
Overhead costs	\$40,000	\$120,000	

Required: (17%)

Assume a traditional costing system applies the \$160,000 of overhead costs based on direct labor hours.

- a. What is the total amount of overhead costs assigned to the standard model? (3%)
- b. What is the total amount of overhead costs assigned to the deluxe model? (3%)

Then assume an activity-based costing system is used and that the number of setups and the number of components are identified as the activity-cost drivers for overhead.

- c. What is the total amount of overhead costs assigned to the standard model? (3%)
- d. What is the total amount of overhead costs assigned to the deluxe model? (3%)
- e. Explain the difference between the costs obtained from the traditional costing system and the ABC system. Which system provides a better estimate of costs? Why? (5%)

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III. Following a strategy of product differentiation, DCF Corporation makes a high-end computer monitor, CM9. DCF Corporation presents the following data for the years 2017 and 2018:

	<u>2017</u>	<u>2018</u>
Units of CM9 produced and sold	5,000	5,500
Selling price	\$400	\$450
Direct materials (pounds)	15,000	15,375
Direct materials costs per pound	\$40	\$45
Manufacturing capacity for CM9 (units)	10,000	10,000
Conversion costs	\$1,000,000	\$1,100,000
Conversion costs per unit of capacity	\$100	\$110
Selling and customer-service capacity (customers)	60	62
Total selling and customer-service costs	\$360,000	\$372,620
Selling and customer-service capacity cost per customer	\$6,000	\$6,010

DCF Corporation produces no defective units but it wants to reduce direct materials usage per unit of CM9 in 2017. Manufacturing conversion costs in each year depend on production capacity defined in terms of CM9 units that can be produced. Selling and customer-service costs depend on the number of customers that the customer and service functions are designed to support. DCF Corporation has 100 customers in 2017 and 115 customers in 2018. The industry market size for high-end computer monitors increased 5% from 2017 to 2018.

Required: (20%)

- a. What is the revenue effect of the price-recovery component? (4%)
- b. What is the cost effect of the price-recovery component? (6%)
- c. What is the net effect on operating income as a result of the price-recovery component? (4%)
- d. What is the net effect on operating income as a result of the productivity component? (6%)

IV. New Taichung Incorporated is a manufacturer of kitchen utensils. It produces all of its products in one department. The information for the current month is as follows:

Beginning work in process was 25% complete as to conversion. Direct materials are added at the beginning of the process. Factory overhead is applied at a rate equal to 40% of direct manufacturing labor. Ending work in process was 70% complete. All spoilage is normal and is detected at the end of the process.

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Required: (15%)

Prepare a production cost worksheet in a good form if spoilage is recognized and assume that the weighted-average method is used.

V. XYZ Company supplies helicopters to corporate clients. XYZ has two sources of funds: long term debt with a market and book value of \$36 million issued at an interest rate of 10%, and equity capital that has a market value of \$14 million (book value of \$8 million). The cost of equity capital for XYZ is 15%, and its tax rate is 30%. XYZ has profit centers in four divisions that operate autonomously. The company's results for 2017 are as follows:

	Operating Income	Assets	Current Liabilities
New York	\$1,750,000	\$11,500,000	\$2,500,000
Boston	2,400,000	9,000,000	3,500,000
Houston	4,675,000	27,500,000	9,500,000
San Francisco	4,200,000	25,000,000	8,000,000

Required: (18%)

- a. Compute XYZ's weighted average cost of capital. (6%)
- b. Compute each division's Economic Value Added (EVA). (8%)
- c. Rank the divisions by EVA. (4%)

本科考試於此結束。

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