

銘傳大學 101 學年度研究所碩士班招生考試

會計學系碩士班

第三節

「成本與管理會計學」試題

(第 1 頁共 6 頁) (限用答案本作答)

可使用計算機 不可使用計算機

I、單選題：(20%)

請在答案本上依下列格式作答 (題號務必標示清楚)：

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.

1. Rach & Johnson is an advertising agency. The firm uses an activity-based costing system to allocate overhead costs to its services. Information about the firm's activity cost pool rates follows:

Activity cost pool	Activity rate	
Clerical costs	\$ 26	per administrative assistant hour
Legal filing fees	\$ 150	per new ad campaign
Client meeting time	\$ 57	per meeting hour

Smythe Company was a client of Rach & Johnson. Recently, 8 administrative assistant hours, 2 new ad campaigns, and 6 meeting hours were incurred for the Smythe Company account. Using the activity-based costing system, how much overhead cost would be allocated to the Smythe Company account?

- A. \$ 233
B. \$ 508
C. \$ 850
D. \$ 3,912
2. The primary reason for adopting total quality management (TQM) is to achieve
- A. reduced delivery time.
B. reduced delivery charges.
C. greater customer satisfaction.
D. greater employee participation.
3. Which of the following costs is both a prime cost and a conversion cost?
- A. direct materials
B. direct labor
C. manufacturing overhead
D. administrative costs
4. If both the variable cost per unit and the selling price per unit decrease, the new contribution margin ratio in relation to the old contribution margin ratio will be:
- A. Lower.
B. Higher.
C. Unchanged.
D. Not enough information to tell.
5. The basic difference between a master budget and a flexible budget is that a
- A. flexible budget considers only variable costs but a master budget considers all costs.
B. flexible budget allows management latitude in meeting goals whereas a master budget is based upon a fixed standard.
C. master budget is for an entire production facility but a flexible budget is applicable to single departments only.
D. master budget is based on one specific level of production and a flexible budget can be prepared for any production level within a relevant range.

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6. Which of the following statements is (are) false regarding financial measures?
- (1) In general, the use of multiple measures to evaluate performance is better than that use of a single performance measure.
- (2) Managers evaluated using multiple measures will most likely act differently than managers evaluated using single measures.
- A. Only (1) is false.
B. Only (2) is false.
C. Both (1) and (2) are false.
D. Neither (1) nor (2) is false.
7. Which of the following is NOT used in a cost-benefit analysis?
- A. Future benefits to be received from project
B. Amounts for future costs of project
C. Book value of past investment in equipment
D. Amount needed to invest in project initially
8. Which term below best describes the quality cost category for “lost profits from lost sales”?
- A. Prevention costs
B. Appraisal costs
C. Internal failure costs
D. External failure costs
9. Woodson Corporation provided the following information regarding its only product:

Sale price per unit	\$65.00
Direct materials used	\$160,000
Direct labor incurred	\$185,000
Variable manufacturing overhead	\$120,000
Variable selling and administrative expenses	\$70,000
Fixed manufacturing overhead	\$65,000
Fixed selling and administrative expenses	\$12,000
Units produced and sold	10,000
Assume no beginning inventory	

Assuming there is excess capacity, what would be the effect on operating income of accepting a special order for 1,200 units at a sale price of \$60 per product assuming additional fixed manufacturing overhead costs of \$5,000 is incurred? (NOTE: Assume regular sales are not affected by the special order.)

- A. Increase by \$2,800
B. Decrease by \$2,800
C. Increase by \$7,800
D. Increase by \$72,000
10. The Beverage Division of Natural Foods Corporation had sales of \$4,200,000 and operating income of \$840,000 last year. The total assets of the Beverage Division were \$1,680,000, while current liabilities were \$360,000. Natural Foods Corporation’s target rate of return is 9%, while its weighted average cost of capital is 7%. What is the Beverage Division’s Return on Investment (ROI)?
- A. 50.00%

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- B. 25.00%
- C. 20.00%
- D. 8.57%

II、填充題：(50%)

請在答案本上依下列格式作答 (題號務必標示清楚)：

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.

1. A company had beginning inventories as follows: Direct Materials, \$300; Work-in-Process, \$500; Finished Goods, \$700. It had ending inventories as follows: Direct Materials, \$400; Work-in-Process, \$600; Finished Goods, \$800. Material Purchases (net including freight) were \$1,400, Direct Labor \$1,500, and Manufacturing Overhead \$1,600. What is the Cost of Goods Sold for the period? _____
2. Read, Inc. instituted a new process in October 2008. During October, 10,000 units were started in Department A. Of the units started, 8,000 were transferred to Department B, and 2,000 remained in Work-in-Process at October 31, 2008. The Work-in-Process at October 31, 2008, was 100% complete as to material costs and 50% complete as to conversion costs. Material costs of \$27,000 and conversion costs of \$36,000 were charged to Department A in October. What were the total costs transferred to Department B assuming Department A uses weighted-average process costing? _____
3. The operations of Gadwell Corporation are divided into the Blink Division and the Blur Division. Projections for the next year are as follows:

	<u>Blink Division</u>	<u>Blur Division</u>	<u>Total</u>
Sales	\$280,000	\$168,000	\$448,000
Variable costs	<u>98,000</u>	<u>77,000</u>	<u>175,000</u>
Contribution margin	\$182,000	\$91,000	\$273,000
Direct fixed costs	<u>84,000</u>	<u>70,000</u>	<u>154,000</u>
Segment margin	\$98,000	\$21,000	\$119,000
Allocated common costs	<u>42,000</u>	<u>31,500</u>	<u>73,500</u>
Operating income(loss)	<u>\$56,000</u>	<u>\$(10,500)</u>	<u>\$45,500</u>

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If the Blur Division were dropped, Blink Division's sales would increase by 30%. If this happened, the operating income for Gadwell Corporation as a whole would be _____.

4. Suzy's Cool Treatz is a snow cone stand near the local park. To plan for the future, the owner wants to determine her cost behavior patterns. She has the following information available about her operating costs and the number of snow cones served.

Month	Number of snow cones	Total operating costs
January	3,500	\$5,000
February	3,800	\$4,800
March	5,000	\$6,800
April	3,600	\$5,450
May	4,700	\$6,200
June	4,250	\$5,950

Suzy uses the high-low method to determine her operating cost equation and sells 4,500 cones

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in a month for \$3.00 each. What would her contribution margin be if she prepared a contribution margin income statement for a month? _____

5. Jeppson Company manufactures computer hard drives. The following data is related to sales and production of the computer hard drives for last year.

Selling price per unit	\$ 100.00
Variable manufacturing costs per unit	\$ 45.00
Variable selling and administrative expenses per unit	\$ 6.00
Fixed manufacturing overhead (in total)	\$ 30,000
Fixed selling and administrative expenses (in total)	\$ 8,000
Units produced during year	1,500
Units sold during year	1,200
Units in beginning inventory	0

Using variable costing, what is the operating income for last month? _____

6. Waterside Company sells two products, Yellow models and Striped models. Yellow models sell for \$50 per unit with variable costs of \$30 per unit. Striped models sell for \$60 per unit with variable costs of \$25 per unit. Total fixed costs for the company are \$20,000. Waterside Company typically sells one yellow model for every three striped models. What is the breakeven point in total units? _____
7. Green Pastures golf course is planning for the coming season. Investors would like to earn a 10% return on the company's \$40 million of assets. The company primarily incurs fixed costs to groom the greens and fairways. Fixed costs are projected to be \$15,000,000 for the golfing season. About 400,000 golfers are expected each year. Variable costs are about \$20 per golfer. The Green Pastures golf course has a favorable reputation in the area and therefore, has some control over the price of a round of golf. Using a cost-plus approach, what price should Green Pastures charge for a round of golf? _____
8. The actual cost of direct labor per hour is \$15.20 and the standard cost of direct labor per hour is \$14.00. One and a half standard direct labor hours are allowed per finished unit. During the current period, 500 finished goods were produced using 2,050 direct labor hours. How much is the direct labor efficiency variance? _____
9. The Tandem division of the Great Adventures Cycles Company had the following results last year (in thousands).

Sales	\$ 4,000,000
Operating income	\$ 480,000
Total assets	\$ 2,000,000
Current liabilities	\$ 300,000

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Management's target rate of return is 10% and the (after tax) weighted average cost of capital is 8%. Its effective tax rate is 40%. What is the Tandem division's Economic Value Added (EVA)? _____

10. Misa Company applies overhead based upon labor-hours. Budgeted factory overhead was \$910,000 and budgeted labor-hours were 32,500. Actual factory overhead was \$893,675 and actual labor-hours were 31,560. Determine the amount of over- or underapplied overhead. _____

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III、計算題 (請列計算過程, 否則不予計分):

◎ 請分別回答下列各自獨立之問題, 題號務必標示清楚

1. The following account balances at the beginning of January were selected from the general ledger of Sailor Manufacturing Company:

Work in process inventory	\$0
Raw materials inventory	\$26,000
Finished goods inventory	\$46,000

Additional data:

- 1) Actual manufacturing overhead for January amounted to \$62,000.
- 2) Total direct labor cost for January was \$57,000.
- 3) The predetermined manufacturing overhead rate is based on direct labor cost. The budget for the year called for \$300,000 of direct labor cost and \$360,000 of manufacturing overhead costs.
- 4) The only job unfinished on January 31 was Job No. 1002, for which total direct labor charges were \$6,300 (800 direct labor hours) and total direct material charges were \$12,000.
- 5) Cost of direct materials placed in production during January totaled \$101,000. There were no indirect material requisitions during January.
- 6) January 31 balance in raw materials inventory was \$32,000.
- 7) Finished goods inventory balance on January 31 was \$34,500.

Required: (7%)

What is the work in process inventory balance on January 31?

2. Looman Inc. is a management consulting firm that specializes in management training programs. In-Line Mfg has approached Looman to contract for management training for a year period. Last year's income statement for Looman is as follows:

Revenues	<u>\$360,000</u>
Costs	
Labor	120,000
Equipment lease	12,000
Rent	24,000
Utilities	8,400
Supplies	23,600
Other costs	14,400
Manager's salary	<u>80,000</u>
Total costs	<u>282,400</u>
Operating profit	<u>\$77,600</u>

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To satisfy the In-Line contract, another part-time trainer will need to be hired at \$42,000. Supplies will increase by 12% and other costs by 15%. New equipment of \$2,500 will need to be lease.

Required: (7%)

If In-Line will pay \$55,000 for one year, should Looman accept the contract? Explain your answer.

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3. Harry Dorffman owns and operates Harry's Abstracting Service. Harry's two revenue generating operations (Abstracting Services and Closing Services) are supported by two service departments: Clerical and Custodial. Costs in the service departments are allocated in the following order using the designated allocation bases.

Clerical: number of transactions processed

Custodial: square footage of space occupied

Average and expected activity levels for next month are as follows:

	Number of Transactions	Square Footage	Expected Costs
Abstract services	50	1,800	
Closing services	25	2,200	
Clerical		1,000	\$ 77,000
Custodial	5		\$ 10,000

Required: (8%)

Use the reciprocal method to allocate the service department costs to the revenue generating departments. Provide the total costs for the revenue departments.

4. Howard Company operates several investment centers. The manager of Genco Division expects the following results for the coming year.

Sales(50,000units at \$20)	\$1,000,000
Variable costs	600,000
Contribution margin	<u>\$ 400,000</u>
Fixed costs	<u>250,000</u>
Profit	<u>\$150,000</u>

Included in Genco's variable cost is \$7 for a component it buys from an outside supplier. One of these components is required in each unit of Genco's product. The manager of Genco has just found that she can buy the component from Danner Division, another division of Howard Company. Danner sells 300,000 units of the component to outsiders at \$8 and its variable cost is \$4 per unit. Danner offers to sell the component to Genco at a price of \$6. Danner is operating well below capacity.

Required: (8%)

- If Genco accepts the offer, what will happen to the income of Genco Division?
- If Genco accepts the offer, what will happen to the income of Howard Company?

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試題完
End of exam