Fall 2007

Final Exam

There are 32 questions on this exam. Fill in an answer for each question on your scantron!. Rounding error within \$25 is acceptable on all time-value-of-money problems. Good Luck!

1. Rilo Company produces and sells gizmos. The company incurred the following production costs for 2006:

Direct Materials

\$15 per unit \$20 per unit \$ 5 per unit

Direct Labor

Variable Manufacturing Overhead

\$190,000 - 10,000 units = \$19 /unit

Fixed Manufacturing Overhead The company produced 10,000 units and sold 8,000 during 2006. What was the ending inventory balance at 12/31/06 using the absorption costing method?

a. \$104,000

b. \$416,000

c. \$320,000

d. \$ 80,000

None of the above

- \$59 Junit x 2,000 units = \$118,000 inventory en ìn U.
- 2. A multi-department company's desired return is 8%. The service department currently has a return of 12% using \$250,000 of operating assets. The company is considering purchasing an additional new \$150,000 machine for the service department. The new machine is expected to have a 11% return. What will be the service department's residual income if the investment is accepted?

a. \$13,000

b. \$10,000

\$3,000

\$14,500

e. None of the above

- 4% x 250,000 = \$10,000 3% x 150,000 = 4,500 \$14,500
- 3. Ug Incorporated is considering purchasing a new piece of equipment. The company requires a minimum rate of return 12%. The new equipment is expected to generate sales of \$100,000 per year, but is also expected to generate \$20,000 of expenses per year. All sales and expenses are cash. The new equipment will cost \$250,000. The equipment has a 7 year useful life and a \$5,000 salvage value. What is the net present value for this investment? (Ignore taxes.)

a. <\$66,980>

b. \$41,219

c.

d.

value. What is the net present value for this investment to the survey of the state of the survey o

4. Dan's Delivery is considering purchasing a new van. The cost of the van is \$42,340. The van has a 4 year useful life and a \$5,000 salvage value. The van is depreciated using the straight-line depreciation method. Dan's requires a minimum rate of return of 8% on all new investments. The van is expected to generate additional cash sales of \$15,000 per year and also generate cash expenses of \$2,500 annually. (This excludes depreciation). Should Dan purchase the new van Ignore taxes.

a Yes, because the actual return is greater than the required.

- b. No, because the actual return is greater than the required.
- Yes, because the actual return is less than the required.
- No, because the actual return is less then the required.
- e. None of the above

PV Factor CASH 3.312 x 12,500 = 41,400 .735 x 5,000 = 3,675 45.075

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5. Orten Company has a normal costing system and applies overhead based on direct labor hours. The company estimated that it would incur \$400,000 of overhead and 100,000 labor hours for 2006. The company made 100,000 units and sold 80,000 units during 2006. The company incurred the following costs to produce the units: \$500,000 raw material; \$350,000 production labor; \$410,000 actual overhead. The production workers actually worked 95,000 hours. At the end of the year, the company adjusts for any over or underapplied overhead. What was the company's cost of goods sold for 2006 after all adjustments were made? \$1,014,000

b. \$984,000

c.

DM 500 K DL 350 K OH 380 K \$998,000

d. \$1,004,000

None of the above

 $\frac{1,230 \text{ K} = 100,000 \text{ units}}{1,230 \text{ K} = 100,000 \text{ units}} = \frac{4}{2} \cdot \frac{30}{\text{unit}} \times 80,000 \text{ sold} = \frac{984,000}{4 \cdot 30,000 \text{ correspondents involve cash}} = \frac{4}{1,014,000} \times \frac{1}{1,014,000}$

6. The Dalton Corporation began business on January 1, 2006. The following transactions took place during the year (Assume all transactions involve cash):

- 1.) Acquired \$5,000 of capital from the owners.
- 2.) Purchased \$7,000 of direct raw materials.
- 3.) Used \$3,500 of direct raw materials.
- 4.) Paid production workers \$2,500.
- 5.) Paid \$1,500 for manufacturing overhead. (Applied and actual overhead are
- 6.) Started and completed 2,000 units of WIP inventory
- 7.) Sold 1,500 units for \$8 each.
- 8.) Paid \$2,500 for selling and administrative expenses.

The amount of raw materials inventory reported on the balance sheet at December 31, 2006 would be:

a.	\$0		RAW 1	ukterial	
<u>b.</u>	\$1,875 \$3,500 \$4,000	(12)	7,000	3,500	(#3)
e.	None of the above	End	3,500		

7. Bob's Boat manufactures custom boats and began business on January 1, 2006. During 2006, the company began work on three boats. The following is the job order cost sheet data for all three

	So L D Boat #101	Still WIP Boat #202	Boat #303 Finished Good
Direct Materials	\$6,000	\$ X ,500	\$6,500
Direct Labor	\$4,300	\$5,000	\$5,500
Labor Hours	450	500	550 x \$5 = 2,750

The company applies overhead based on direct labor hours. The company calculated a predetermined overhead rate of \$5.

During 2006, the company completed Boat #101 and Boat #303. Boat #202 was still in production at the end of the year. Boat #101 was sold for \$18,000 on December 1, 2006. What was the balance in finished goods inventory on 12/31/06? (round to the nearest dollar)

\$15,000 \$14,750

\$14,933

\$14,667

None of the above

8. Harvey's Home-Store has three departments: Tools, Plumbing and Hardware. The store incurred \$30,000 of worker's compensation insurance for 2006. The departments identified the following cost drivers for 2006:

\checkmark	Tools	Plumbing	Hardware
Labor dollars	\$535,000	\$700,000	\$240,000
Square footage	3,000	8,000	1,000
# of sales transactions	300,000	900,000	90,000

Using the most appropriate cost driver, how much worker's comp insurance should be allocated to the Plumbing Department? (round to the nearest dollar) 0, ,, ,

C I Iui	nome Department:	(Tourid to the Hearest donal)		flumbing's use of	OH	
a.	\$15,000	Overhead		, , , , , , , , , , , , , , , , , , , ,	0.1	
b.	\$10,000	OUT READ		700	4	
c.	\$20,930	\$ 30,000	V		= *	14,237
	\$10,355	•	Х.	(535 + 700 + 240)	_	
(e.)	None of the above	}		•		

9. Ethelle Allen makes two types of chairs. One of the chairs is a rocking chair. The other is a straight-back chair. It requires approximately 5 hours of direct labor to make one chair of either kind. During March, the company made 50 rocking chairs and 100 straight-back chairs. The materials handling cost amounted to \$15,000 for the month. The rocking chair requires one-half hour of materials handling time per chair while the straight-back chair requires one-quarter hour of materials handling time per chair. In total, how much materials handling cost should be allocated to the rocking chairs for March? (round to the nearest dollar)

\$10,000 \$ 5,000 \$ 7,500 \$15,000	Rocking: ½ hr x Sochairs = 25 hrs Straightback: 4hr x 100 chairs = 25 hrs
\$15,000 None of the above	EACH product is Allocated 1/2 of the \$15,000 OH cos

10. ListenUp Audio Systems sells and installs car stereo systems. Rosemary Patterson needs to prepare a purchases budget for the last quarter of 2007. The company's sales budget for the fourth

quarter is provided be	•	(um to: 01 2007. 11.	e company o saic	b outset for the routin	Nou	_ Dea
Budgeted Sales	October \$90,000	November \$102,000	December \$104,000	Budgeted Cogs	•	83,20
Posemany expects the	a company's cost o	f goods sold to be	200% of color. The	Budgeted Beg. Inv	16,320	16,64

x 16,000 units 38,400 cm -6,000 SG # A 32,400 N.I.

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Rosemary expects the company's cost of goods sold to be 80% of sales. The ending inventory balance each month should be 20% of the next month's cost of goods sold. Based on this information, how much inventory does Rosemary need to purchase for November?

a. b.	\$78,400 \$98,040		Nou-	INU	
c.	\$80,640 \$79,360 None of the above	B. Purchase	16,320	81,600	C065
	its first year of anarations	End	16,640	1	1 and \$50

11. During its first year of operations, Overton Company paid \$20,000 for direct material and \$50,000 for production workers' wages. Lease payment and utilities on the production facility amounted to \$12,000. General, selling and administrative expenses amounted to \$6,000. The company made 20,000 units and sold 16,000 units for \$6.50 each. What was the amount of the company's net in - 4.10 = 2.40 em/unit

income for the first year?		,
a. \$37,200	DM \$20K DL \$50K	6.50.
b. \$43,200	Ni & COK	
c. \$37,800		
d. \$42,000	MOH \$ 12 K	
e. None of the above	\$ 0-1	
	4 82 K	
	= 20 k units	
	\$ 4.10 per unit	
	t e e e e e e e e e e e e e e e e e e e	

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12. Spacely Sprockets' sales budget shows the following expected total sales:

•	Month	Total Sales	Credit Sales
	January	\$30,000	
	February	\$40,000	
_	March	\$35,000	28,000 x 70% = 19,600
_	April	\$30,000	

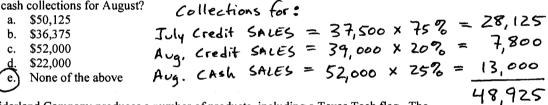
The company expects 80% of its sales to be on account (credit sales). Credit sales are collected as follows: 30% in the month of sale and 70% in the month following the sale. What is the budgeted accounts receivable balance at the end of the first quarter?

- a.) \$19,600
- b. \$24.500
- c. \$16,800
- d. \$22,800
- e. None of the above

13. Geerts Industries' sales budget shows the following expected total sales for the third quarter of 2007:

Month	Total Sales
July	\$50,000
August	\$52,000
September	\$60,500

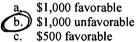
The company expects 75% of its sales to be credit sales. Credit sales are expected to be collected as follows: 20% in the month of sale, 75% in the month following the sale with the remainder being uncollectible and written off in the month following the sale. What is the budgeted amount of total cash collections for August?



14. The Raiderland Company produces a number of products, including a Texas Tech flag. The company, which began operations at the beginning of the year, uses a standard cost system. The standard costs for one Texas Tech flag are provided below:

The company produced and sold 35,000 flags during 2006 at the following costs:

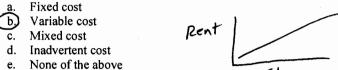
What is the company's material usage variance for 2006?



- \$500 unfavorable
- e. None of the above

500 yards x \$2 per yard = \$1,000 U

15. Coffee Café operates a chain of coffee shops in Lubbock. The company pays rent of \$24,000 per year for each location. Supplies (napkins, bags, and condiments) are purchased as needed. The managers of each shop are paid a salary of \$3,000 per month and all other employees are paid on an hourly basis. Relative to the number of shops, the cost of the rent is which kind of cost?

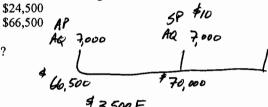


16. The Brody Company provided the following standard cost information for each unit is produces:

Direct Material (3 ft. @ \$1.50 per foot) \$ 4.50 / unit \$15.00 / unit Direct Labor (1.5 hrs @ \$10 per hour)

During 2006, the company produced and sold 4,500 units at the following cost:

Direct Material (14,000 feet) \$24,500 Direct Labor (7,000 hours)



What was the company's labor rate variance for 2006?

- a. \$2,250 Unfavorable
- b. \$2,250 Favorable

\$3,500 Unfavorable \$3,500 Favorable

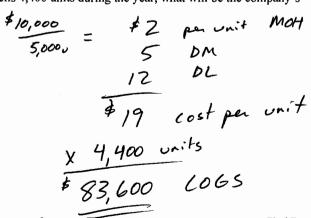
- None of the above
- 17. The Coldwall Company provided the following cost information for 2006:

Wages paid to production workers \$25,000 Wages paid to factory maintenance \$10,000 * Raw materials used in production \$50,000 S1 x = \$45,000 Indirect materials \$15,000 * Factory utilities \$ 8,000 * Rent on the production facility \$12,000 * Sales commissions \$40,000

What is the total amount of the company's manufacturing overhead for 2006?

- \$120,000
- \$ 90,000
- \$ 45,000
 - \$ 20,000
 - e. None of the above
- 18. The Magnus Company incurs production cost of \$5 per unit for direct material and \$12 per unit for direct labor. The company pays rent of \$10,000 per year for its production facility. If the company produces 5,000 units and sells 4,400 units during the year, what will be the company's cost of goods sold?
 - a. \$89,700

 - b. \$81,400
 - c. \$95,000 d. \$101.000
 - e. None of the above



- 19. AbCo Inc. produces a product that is sold for \$20 each. The variable cost to produce each unit is \$15 and there is \$10,000 in total fixed cost. The company would like to have a \$30,000 profit. What amount of total sales does the company need in order to earn the desired profit?
 - \$5 cm/unit × units \$10,000 = \$30,000 Units = 8,000 × \$20 price per unit = \$160,000 \$25,000 b. \$75,000 c. \$100,000 \$125,000
- 20. The following income statement is provided:

None of the above

· · · · · · · · · · · · · · · · · ·		
Sales revenue (2,000 * \$5)	\$10,000	h —
Variable COGS (2,000 * \$1.25)	(2,500)	\$5
Fixed COGS	(4,000)	- 1.25 VAI COUS
Gross Margin	\$ 3,500	_ 50 VAT 564A
Depreciation	(1,000)	
Supplies (2,000 * \$0.50)	(1,000)	\$3.25 CM/unit
Net Income	\$ 1,500	

If sales increase to 2,800 units, what will be the company's contribution margin?

- a. \$6,500 \$ 3.25 b. \$9,375 c. \$8,125 x 2,800 units d. \$7,125 \$ 9,100 CM None of the above
- 21. Best Thing, Inc. sells a product at \$60 per unit that has unit variable cost of \$40. The company's break even point is \$120,000 in total sales. How much profit will the company make if it sells 5,000 units?
 - CM ratio = 20 <\$20,000> \$60,000 \$100,000 \$120,000 None of the above
- 22. Alcott Company has a contribution margin of 25%. The company desires to earn a profit of \$50,000. The company has fixed costs of \$220,000. What sales revenue would the company have to have in order to earn the desired profit?
 - \$680,000 25% x Sales# - 220,000 = 50,000 a. b. \$480,000 Salas# = 270,000 c. \$200,000 d. \$100,000 (e.) None of the above = 1,080,000
- 23. Evelyn Company began the accounting period with \$13,500 in accounts receivable. The ending balance in accounts receivable was \$5,000. If the credit sales during the period were \$22,000, what is the amount of cash received from customers?
 - AREC.

 Beg. 13,500

 Subtract

 Subtract

 Chew Great

 Z2,000

 End 5,000 a. \$13,500 \$22,000 \$40,500 None of the above

24. Stevens Associates uses the indirect method for preparing the statement of cash flows. The following accounts and balances were drawn from the company's accounting records:

			•
<u>Account Title</u>	Beginning Balance	Ending Balance	Δ
Account Receivable	\$15,000	\$20,000	-5,000
Prepaid Insurance	2,300	500	+ 1,800
Accounts Payable	12,000	12,900	+ 900
Unearned Revenue	3,200	1,900	-1300

£= -3,600

Net income for the period was \$16,000, which includes \$5,000 of depreciation expense. The net cash flows from operating activities would be;

	\$17,400	Net Income	16,000
b.	\$18,600	+ Depreciation	5000
c.	\$20,000	,	•
d.	\$24,600	- Disht B/S	3,600
e.	None of the above	CF0 #1	7,400

25. Production in 2007 for Big Snow Mobiles was at its highest point in the month of June when 40 units were produced at a total cost of \$700,000. The low point in production was in January when only 15 units were produced at a cost of \$340,000. The company is preparing a budget for 2008 and needs to project expected fixed cost for the budget year. Using the high/low method, the projected amount of fixed cost per month is

jecte	ed amount of fixed cost per	month is	
a.	\$260,000	700,000 - 340,000 = 14,440	VC estimate
b.	\$240,000	40 - 15	
c.	\$184,000		
	\$_10,400	(14,400 x 15 units) + FC = \$340,000 =	> C *
e.	None of the above.	(19,900 x 15 units) + FC = 310,000 =	> FC = 124

26. Western Company can purchase an asset that costs \$1,166,900. The asset is expected to produce net cash inflows of \$300,000 per year for five years. Based on this information alone, the investment is expected to yield an internal rate of return closest to

- a. 6%
- b. 9%
- c. 10%
- d. 12%
- e. None of the above

27. XYZ Company has an opportunity to purchase an asset that will cost the company \$60,000. The asset is expected to increase cash flow by \$12,000 per year. Assume the asset has a 5-year useful life, depreciation is straight line, a zero salvage value, a 14% required return, and no taxation.

The net present value of the investment will be:

- a. Less than zero
- b. Greater than zero, but less than \$10,000
- c. Greater than \$10,000, but less than \$20,000
- d. Greater than \$20,000, but less than \$40,000
- e. Greater than \$40,000

28. Return on investment can be broken into two components:

- a profit margin and asset turnover
 - b. contribution margin and asset turnover
 - c. segment margin and asset turnover
 - d. profit margin and inventory turnover
 - e. the good part and the bad part

no need to calculate...

future payments = \$60,000

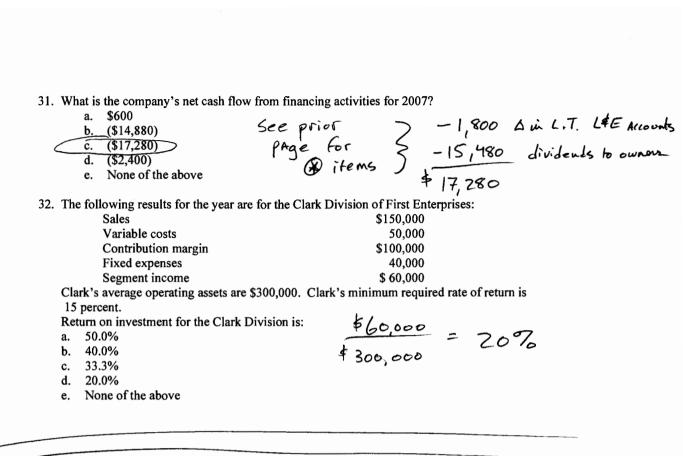
ANY discounting makes
"A" true,

Use the following for the next three questions.

Admittedly,

Miller Company provided the following balance sheet and income statement: Miller Company **Balance Sheet** December 31, 2007 and 2006 Assets 2007 2006 Cash 480 1,080 -120 Accounts Receivable 1,800 1,680 + 480 11,520 12,000 Inventory 12,600 Plant & Equipments 9.720 Less: Accumulated Depreciation (1,440)(1.080)7,200 10,200 I and 36,480 **Total Assets** 29,280 Liabilities & Stockholders' Equity + 360 Accounts Payable 1,320 960 Salaries Payable 5,160 4,080 +1,080 3,000 Long-term Note Payable Bonds Payable 4,800 1,200 Capital Stock 9,600 12,000 Retained Earnings 8,400 15,240 Total Liabilities & Stockholders' Equity 29,280 36,480 Miller Company RE WAS +1800 Income Statement 15,240 begin For the Year Ended December 31, 2007 +8,640 Net Inc Sales \$ 24,720 Less: COGS 12,600 23,880 Expected Gross Margin 12,120 Less: Operating Expenses Depreciation 960 3,240 Salaries Other 4,920 2,400 960 Depreciation 1 800 AShort-term Bls Operating Income 5,520 Nonoperating Revenues and Expenses Interest Expense 600 Gain on Sale of Equipment 3,720 Net Income 8,640 29. What is the company's net cash flow from operating activities for 2007? a. \$ 7,680 \$11,400 c. \$ 6,720 d. \$ 7,920 e. None of the above 30. What is the company's net cash flow from investing activities for 2007? Difficult... see next page for the complete calculation ... A quick solution is: a. \$3,000 b. \$6,000 \$12,000 \$9,000 e. None of the above + CFO + CFI + CFF = End \$1,080 + 7,680 + CFI + <17,280> = \$480 Acct 2301 CFI = \$9,000

You must answer #29#31 correctly to use the quick solution.



#30 CFI Associated W/Long-term B/S Assets

$$\Delta$$
 Land = † 3,000 (Sold Land)
 Δ PPAE = † 6,000 Sold Equipment *
 Δ 9,000

* Calculating the cash received from sold equipment is - without questionthe most difficult problem on the exam. You must calculate the book value of sold equipment & Add that figure to the GAin on SALE of Equipment:

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