ACCT 2101

Third Exam – Version 1 Solution Spring Semester, 2016

Nam	ame Key with Grading Guideline Section (12 of (please print clearly)	or 1:30)
Pledg	edge: On my honor, I have neither given nor received any unaut	horized help on this exam.
	(signed)	
Instru	structions:	
 2. 3. 	instructor will be read and considered during the grading proc You may use your ACCT 2101 Help Card during the exam. You must submit your Help Card with your exam.	cess. No other help is authorized.
<i>3</i> . 4.		it use your own.
5.	<u> </u>	
6.		sheet.
7.	· · · · · · · · · · · · · · · · · · ·	
Point	oint Allocation:	
- 0111	Problem 1 (7 items @ 3 points each) 21	
	Problem 2 8	
	Problem 3 16	
	Problem 4 14	
	Problem 5 10	
	Problem 6 8	
	Problem 7 8	
	Problem 8 12	
	Free Points 3	
	Extra Credit Questions (below) 2	
	TOTAL AVAILABLE POINTS = $\underline{102}$ point	S
EXT	XTRA CREDIT QUESTIONS:	
(1)) What is your professor's favorite movie of all time?	ory
(2)) What is your favorite musical artist or group? Your c	noice

PROBLEM 1. Conceptual Multiple-Choice Questions. (These questions are taking the place of the open-ended conceptual questions that I usually ask. I think they will take much less time and will allow you plenty of time to complete the exam.) **CLEARLY CIRCLE YOUR ANSWER**

CIRCLE YOUR ANSWER.
Which of the following best describes the objective of depreciation?
A. To allocate the cost of a tangible asset to the periods in which its use contributes to earning revenue.
B. To estimate the remaining useful life of the asset. F
C. To report the asset on the balance sheet at the estimated amount for which the asset could be sold on the balance sheet date.
D. To estimate the current market value of the asset.
2. Which method of depreciation results in periodic depreciation expense that fluctuates from one period
to the next, not necessarily in a steadily upward or downward direction?
A. Straight-line.
B. Units-of-production.
C. Modified accelerated cost recovery system.
D. Double-declining-balance.
3. Under what conditions would a company most likely adopt the double-declining-balance method for financial reporting?
A. The company has high technology, robotic equipment in its plant that becomes obsolete quickly and declines in utility to the company more rapidly in the early years of the assets' lives.
B. The company wants to maximize its net income during the earlier years of the asset's life.
C. The company wants to maximize the asset's book value in the earlier years of the asset's life.
D. The company wants to maximize the total depreciation expense over the life of the asset.
(Total depreciation will be the
same across all methods.)

ACCT 2101 Exam 3 2 of 12

PROBLEM 1 – continued.

4.	Which of the following properly describes the accounting for goodwill?
	A. Goodwill is recorded when it is internally generated.
	B. Goodwill is amortized over its useful life.
	C. Goodwill is the difference between the amount paid for a company relative to the book value of the
	acquired company's net assets. F
(D. Goodwill is written down when it has been determined to be impaired.
5.	Which of the following properly describes the accounting for a patent?
	A. Research and development costs associated with a patent are capitalized.
	B. The patent will be amortized over its useful life.
	C. Patent amortization expense is accounted for within the accumulated depreciation account.
	D. A patent's legal life extends to 70 years after the death of the inventor.
_	
ô.	Which of the following is not a reason that a corporation would want to issue bonds instead of stock?
	A. Interest payments can be deducted for income tax purposes. Advantage.
	B. Stockholders maintain control. Advantage
	C. The impact on earnings from using borrowed money may be positive. Adventuge
(D. There is less risk associated with a bond issue.
	7. Purdum Farms borrowed \$10 million by signing a five-year note on December 31, 2013.
	Repayments of the principal are payable annually in installments of \$2 million each. Purdum Farms
	makes the first payment on December 31, 2014 and then prepares its balance sheet. What amount
	will be reported as current and long-term liabilities, respectively, in connection with the note at
	December 31, 2014, after the first payment is made?
	A. \$2 million in current liabilities and \$8 million in long-term liabilities.
	B. \$2 million in current liabilities and \$6 million in long-term liabilities.
	C. Zero in current liabilities and \$8 million in long-term liabilities.
	D. Zero in current liabilities and \$10 million in long-term liabilities.
	\$10 million - 2 million paid of 12/3/14 = \$8 million outstanding at 12/31/14
AC	CT 2101 Exam 3 * 2 million 3 of 12
	will be paid in the next year
	la millian : Alil land West

PROBLEM 2. (8 points)

Estimated Inventory:

Debby Turner was at home when she received a call from the fire department telling her that her store had burned to the ground. Her business was a total loss. The insurance company required her to prove her inventory loss before they would pay the claim. From the beginning of the year until the date of the fire, Debby's company had net sales of \$800,000 and net purchases of \$560,000. Transportation-in amounted to \$27,000, and beginning inventory was \$70,000. Debby always priced her goods to achieve a gross margin of 35%.

REQUIRED: Compute Debby's estimated inventory loss using the gross margin method. SHOW AND **LABEL** ALL OF YOUR WORK TO RECEIVE ANY CREDIT.

Beginning Inventory 70,000 Add: Net purchases 560,000 Add: Transportation in 27,000 Net Cost of Purchases 587,000 Cost of Goods Available 657,000 Less: Estimated Cost of Goods Sold: Net Sales 800,000 Less: Estimated gross margin (280,000) (800,000 × 35%) 520,000

Estimated COGS

Estimated Ending Inventory

Equipment costing \$295,000, on which \$130,500 of up-to-date accumulated depreciation has been recorded, was disposed of on January 1 of the current year. Prepare the journal entries required to record the equipment's disposal under each of the following unrelated assumptions.

(1) The equipment was sold for \$239,200 cash.

(2) The equipment was sold for \$136,800 cash.

(3) The equipment was retired from service and hauled to the junkyard. No material was salvaged.

(4) The equipment was completely destroyed in a fire. Cash of \$105,000 is expected to be recovered from the insurance company.

Asset Cost: Invoice 4,630,000 Transport 23,000 Tristall/feet 92,000 4,745,000 PROBLEM 4. (14 points)

The Good Company acquired and placed into use equipment on January 1, 2014, at a cash cost of \$4,630,000. Transportation charges amounted to \$23,000, and installation and testing costs totaled \$92,000.

The equipment was estimated to have a useful life of seven years and a residual value of \$55,000 at the end of its life. It was further estimated that the equipment would be used in the production of 938,000 units of product during its life. In 2014, 62,000 units of product were produced. In 2015, 73,000 units of product were produced.

REQUIRED: Compute the depreciation to the nearest dollar for 2014 and 2015 using each of the following methods (SHOW AND LABEL YOUR WORK):

(a) Straight-line method.

$$\begin{cases} 2014: (4,745,000-55,000)/7 = {}^{\sharp}670,000 \\ 2015: {}^{\sharp}670,000 \quad (same) \end{cases}$$

Units-of-production method.

(b) Units-of-production method.

Depreciation per Unit =
$$(4,745,000 - 55,000)/938,000$$
 units

= $^{*}5$ per unit

4 2014: 62,000 units x $^{*}5=$ $^{*}310,000$

2015: 73,000 units x $^{*}5=$ $^{*}365,000$

(c) Double-declining-balance method.
$$5/L \text{ Rate} = \frac{1}{7} = 14.29\% \text{ (rounded)}$$

$$DDB \text{ Rate} = 2 \times 14.29\% = 28.58\%$$

$$4 \begin{cases} 2014: (4.745,000-0) \times 28.58\% = \frac{4}{1.356,121} \\ 2015: (4.745,000-1.356,121) \times 28.58\% = \frac{4}{1.356,121} \end{cases}$$

PROBLEM 5. (10 points)

The Turner Mining Company purchased a tract of land containing ore for \$830,000. The company then spent \$130,000 developing the site. The company has determined that 600,000 tons of ore exist on the tract, but only 500,000 tons can be economically removed. When the company finishes with the tract, it estimates the land will be worth \$150,000. You must show and label all of your work to receive any credit.

REQUIRED:

- (a) Compute the depletion cost per ton of ore.
- (b) Prepare the journal entry to record depletion costs in the first year assuming that 82,000 tons of ore are removed.
- (c) Prepare the journal entry to allocate depletion costs assuming that 47,000 tons of ore are sold.

PROBLEM 6. (8 points)

Hanson Company purchased a piece of equipment for \$590,000 and placed it in operation on January 1, 2013. Depreciation was recorded for 2013 and 2014 using the straight-line method, an 8-year life, and an expected residual value of \$24,000. Based on the Hanson Company's usage of the equipment through 2014, they believe that the useful life of the equipment will be longer than they had originally estimated. They have revised the estimated life of the equipment to be a *total* of 11 years. Because they will be keeping the equipment in service longer, they have reduced their estimate of the residual value to \$9,000.

REQUIRED: Compute the depreciation expense on the equipment for 2015 assuming that Hanson Company has been reporting on a December 31 year-end. Please round to dollars at every step. **You must show and label all of your work to receive any credit.**

Book Value at 1/1/15:

Recompute depreciation: Book Vo

PROBLEM 7. (8 points)

The Turner Company acquired the Hanson Company for a cash price of \$2,975,000. In addition, the Turner Company assumed all liabilities of the Hanson Company as part of the acquisition. The following are the fair market values of the assets and liabilities of the Hanson Company that were acquired:

Accounts Receivable	\$ 485,000
Inventories	510,000 Assets = 2,197,000
Property, Plant, and Equi	ipment 689,000
Patents	513,000
Accounts Payable	139,000 \ Liabilities = 341,000
Notes Payable	202,000
	tarian di kananan di Kalamatan d
REQUIRED:	Goodwill = (2,975,000 + 341,000) - 2,197,000 = 1,119,000

(1) Record the **COMPLETE** journal entry to recognize the acquisition of the Hanson Company by the Turner Company. You must show your computation of Goodwill to be eligible for partial credit.

(2) At the end of the second year after the acquisition, the fair value of the Goodwill has decreased by \$300,000. Record the journal entry to recognize this decrease in value.

We discussed three ratios (see below) that are used in assessing a company's management of inventories and working capital.

REQUIRED: Compute these three metrics for the two most recent years provided in Nike's annual report (on the following two pages). Nike's Inventories balance for the year ended May 31, 2013, was \$3,484. YOU MUST SHOW ALL OF YOUR WORK!

(2) Inventory Turnover: Cost of Goods Sold / Average Inventory

2015:
$$16,534/((4,337+3,947)+2) = 16,534+4,142 = 3,99 \text{ times}$$

2014: $15,353/((3,947+3,484)+2) = 15,353+3,715.5 = 4.13 \text{ times}$

NIKE, Inc. Consolidated Statements of Income

On million and account of the country of the countr	Year Ended May 31,							
(In millions, except per share data)	2015			2014		2013		
Income from continuing operations:			Mai					
Cost of sales	\$	30,601	\$	27,799	\$	25,313		
Gross profit		16,534		15,353		14,279		
Demand creation expense		14,067		12,446		11,034		
Operating overhead expense		3,213		3,031		2,745		
Total selling and administrative expense	200	6,679		5,735		5,051		
Interest expense (income) and (but a come)		9,892		8,766	illes	7,796		
Interest expense (income), net (Notes 6, 7 and 8)		28		33		(3		
Other (income) expense, net (Note 17) Income before income taxes		(58)	100	103		(15		
		4,205		3,544		3,256		
Income tax expense (Note 9)		932		851	160	805		
NET INCOME FROM CONTINUING OPERATIONS		3,273		2,693		2,451		
NET INCOME FROM DISCONTINUED OPERATIONS	ne new		INC.		134	21		
NET INCOME	\$	3,273	\$	2,693	\$	2,472		
arnings per common share from continuing operations:		Real State	Territor.		874,500			
Basic (Notes 1 and 12)	\$	3.80	\$	3.05	\$	2.74		
Diluted (Notes 1 and 12)	\$	3.70		2.97		2.74		
Earnings per common share from discontinued operations:	1000		Ψ.	2.31	Ψ	2.00		
Basic (Notes 1 and 12)	\$		\$	VIDEOUS CONTRACTOR	\$	0.00		
Diluted (Notes 1 and 12)	\$		\$		Ф	0.02		
Dividends declared per common share	\$	1.08	\$	0.93	\$	0.02 0.81		

The accompanying Notes to the Consolidated Financial Statements are an integral part of this statement.

NIKE, Inc. Consolidated Balance Sheets

(In millions)		May 31,				
ASSETS		2015		2014		
Current assets:						
Cash and equivalents (Note 6)	166					
Short-term investments (Note 6)	\$	3,852	\$	2,220		
Accounts receivable, net (Note 1)		2,072		2,922		
Inventories (Notes 1 and 2)		3,358		3,434		
Deferred income taxes (Note 9)		4,337		3,947	3,48	
Prepaid expenses and other current assets (Notes 6 and 17)		389		355	-,,,	
Total current assets		1,968		818		
Property, plant and equipment, net (Note 3)		15,976		13,696		
Identifiable intangible assets, net (Note 4)		3,011		2,834		
Goodwill (Note 4)		281		282		
		131		131		
Deferred income taxes and other assets (Notes 6, 9 and 17) TOTAL ASSETS		2,201		1,651		
LIABILITIES AND SHAREHOLDERS' EQUITY	\$	21,600	\$	18,594		
Current liabilities:			Turge	Chount		
		The state of the s				
Current portion of long-term debt (Note 8)	\$	107	\$	7		
Notes payable (Note 7)		74		167	Ì	
Accounts payable (Note 7)		2,131		1,930	2	
Accrued liabilities (Notes 5, 6 and 17)		3,951		2,491	5	
Income taxes payable (Note 9)		71		432	2	
Total current liabilities		6,334		5,027	FORM 10-K	
Long-term debt (Note 8)		1,079		1,199	Щ	
Deferred income taxes and other liabilities (Notes 6, 9, 13 and 17)		1,480		1,544	1	
Commitments and contingencies (Note 16)					*	
Redeemable preferred stock (Note 10)						
Shareholders' equity:						
Common stock at stated value (Note 11):		CE SE				
Class A convertible 178 and 178 shares outstanding						
Class B — 679 and 692 shares outstanding		3		3		
Capital in excess of stated value		6,773		5,865		
Accumulated other comprehensive income (Note 14)	(1) (2)	1,246		85		
Retained earnings		4,685		CONTRACT AND SOCIETY		
otal shareholders' equity		12,707		4,871		
OTAL LIABILITIES AND SHAREHOLDERS' EQUITY	\$	21,600	^	10,824 18,594		

The accompanying Notes to the Consolidated Financial Statements are an integral part of this statement.