Unit 2 – INVENTORY – Major Assignment

65 marks

1. Early in 1994, Future Shop began carrying Quickbooks software, a new accounting program. On December 31, 1994 Future Shop’s records showed the following cost layers in inventory:

Units Unit Cost Total Cost

Opening Inventory 10 $600 $6,000

March 31 Purchase 14 $650 $9,100

August 1 Purchase 6 $500 $3,000

**A total of 22 units were sold: 7 units were sold on February 1, and 15 were sold on May 1.**

1. Complete the following chart showing your calculations and clearly marking your answer:

*(Application - 18 marks – 2 marks for COGS; 1 mark for inventory)*

|  |  |  |  |
| --- | --- | --- | --- |
|  | LIFO | FIFO | Average Cost |
| PERPETUAL | Cost of Goods Sold | Cost of Goods Sold | Cost of Goods Sold |
| Ending Inventory | Ending Inventory | Ending Inventory |
| PERIODIC | Cost of Goods Sold | Cost of Goods Sold | Cost of Goods Sold |
| Ending Inventory | Ending Inventory | Ending Inventory |

For parts b) and c), the amount, $1100, is considered “material” in dollar amount.

1. Future Shop takes a physical count of inventory and finds only 6 units on hand. Prepare the journal entry to record the shrinkage loss assuming that Future Shop uses (i) LIFO and (ii) FIFO.

*(Application - 5 marks – 1 mark for each unique account and amount)*

1. (To answer this question, assume that part b) never happened.) On December 31, the 8 remaining units could be replaced at the current market price of $250 each. Prepare a journal entry if needed. Use FIFO (if needed).

*(Application – 3 marks – 1 mark for each account and amount)*

1. You are the bookkeeper at Fun Buy Souvenir Shop in Toronto, Ontario. It is January 6 and you are double checking these 4 year-end inventory situations that were brought to your attention. The physical count of inventory on December 31 was valued at $46,000.

(1) Merchandise costing $1000 was shipped to Fun Buy by a supplier on December 30 and was not received until January 5, a week later. The supplier’s invoice showed that the terms were n/30, FOB shipping point (origin).

(2) Merchandise costing $3000 was shipped to a regular customer in the late afternoon on December 31 after the physical count of inventory taken. The invoice was sent showing terms 2/10, n/30, FOB origin.

(3) On December 31, Triple B Souvenir Shop in Ottawa, Ontario had $4,000 of merchandise being sold on consignment and was not included in the physical count.

(4) Merchandise costing $2000 was shipped to Fun Buy on December 29 and arrived on January 4. The terms were n/30, FOB destination.

1. What should the ending inventory be?

*(Application – 4 marks – 1 mark for the correct treatment of each situation)*

1. If the inventory value had not been adjusted for the 4 situations, what would the effect (over-stated, under-stated, no effect) have been on: Revenue, COGS Expense, Gross Margin, Net Income, Total Assets?

*(Thinking – 5 marks – 1 mark for each)*

1. Explain how inventory errors are self-correcting over two years.

*(Communication – 4 marks)*

1. Draw a pictorial representation of 1 item of inventory being (1) bought, (2) stored and (3) sold. Below (1) and (3), show the journal entry (no dollar amounts) for the item, using:
   1. Perpetual Method

*(Knowledge – 3 marks – ½ mark for each account)*

* 1. Periodic Method

*(Knowledge – 2 marks – ½ mark for each account)*

* 1. Drawing

*(Communication – 1 mark)*

The student may find the following chart helpful.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Bought | Stored | Sold |
| Picture |  |  |  |
| Perpetual Method |  |  |  |
| Periodic Method |  |  |  |

1. During the current year, Cherry Vanilla Co. offered for sale merchandise that had a total cost of $348,000 and retail value of $660,000. The store’s net sales for the year were $580,000. For each calculation below, show all your work.
2. Calculate the Cost Ratio

*(Application – 1 mark)*

1. Estimate the (i) Cost of goods sold during the year, and, (ii) the ending inventory at the end of the year.

(*Thinking – 4 marks – 2 marks for each calculation)*

1. Express the Cost Ratio as a mark-up percentage.

*(Application – 1 mark)*

1. A physical count of inventory at year-end had a retail value of $75,500. Calculate the shrinkage of inventory at its cost value.

*(Thinking – 3 marks)*

1. Calculate the Gross Margin (include shrinkage losses in Cost of Goods Sold)

*(Thinking – 3 marks)*

1. James Brown is an auditor with Revenue Canada. He has been assigned to audit the income tax return of Square Deal Lumber Company (SDLC). Selected figures from the company’s income tax return are below:

|  |  |
| --- | --- |
| Sales | $12,000,000 |
| Beginning Inventory | $360,000 |
| Purchases of Merchandise | $9,600,000 |
| Ending Inventory | $260,000 |
| Cost of Goods Sold | $9,700,000 |
| Gross Profit | $2,300,000 |

As Brown examined these figures, he became suspicious that Square Deal had understated its taxable income by a significant amount and may be been engaging in this practice for several years.

Brown looked up several ratios for the retail lumber industry in a recent publication of industry averages. He found that retail lumberyards, on average, had annual sales of $10 million, an inventory turnover rate of 10, and a gross profit rate of 20%. Brown also noticed a newspaper advertisement by Square Deal, which read, “Many unique products in our huge yard. We carry what the other yards don’t. this week’s special: roofing materials – 15% discount on shake, shingles, and shale. Large selection in stock.” Brown then sent a letter to Square Deal to arrange a date for visiting the company and performing an audit of its latest income tax return.

When Brown arrived at Square Deal Lumber, he was met in the parking lot by Sam “Square Deal” Delano, president and owner of the business. Brown noticed that Square Deal looked like most other retail lumberyards. There was one main building, containing offices and displays of such merchandise as power tools and electrical supplies. Behind this building was a large fenced yard, with many stacks of lumber, and several storage sheds. These sheds contained plywood, fiberglass insulation, and other products that required protection from the weather.

Brown asked to see the company’s perpetual inventory records. Delano told him that Square Deal uses a periodic inventory system, as it is not a publicly owned company and does not have to issue quarterly financial statements to shareholders or other outsiders. He pointed out that he and the general manager were on hand every day, and they both knew exactly what was in stock – down to the very last board.

By examining various accounting records, Brown concluded that the amounts of sales revenues and merchandise purchases were correctly stated in Square Deal’s income tax return. He noticed, however, that most types of merchandise were reordered at intervals of about five weeks.

NOTE: An inventory turnover rate of 10 means that inventory has, on average, sold 10 times per year, or every 36.5 days (365 days / 10 times); that is, every 5 weeks. The turnover rate is calculated with the following formula: COGS / Inventory

1. What was it about the figures in SDLC’s income tax return that originally made Brown suspect that the company might be understating its taxable income?

*(Thinking – 2 marks)*

1. What happened to confirm Brown’s suspicions? Identify all of the factors that have come to his attention and yours.

*(Thinking – 2 marks)*

1. Does it appear that SDLC is engaging in a deliberate scheme to evade income taxes, or that the company has simply made an “honest mistake”? Explain.

*(Thinking – 2 marks)*

1. Assume that the industry averages correctly approximate the financial position and operating results of Square Deal. Estimate for the current year the correct amounts of the company’s cost of goods sold and average amount of inventory. (Show your calculations.)

*(Thinking – 2 marks)*

1. Estimate the amount by which Square Deal appears to have understated its taxable income.

*(Thinking – 2 marks)*

1. Using the following amounts, prepare a merchandiser’s Income Statement for the year-ended December 31.

*(Application – 6 marks)*

|  |  |
| --- | --- |
| Automobile Expense | $3,000 |
| Building Maintenance Expense | $2,000 |
| Ending Inventory | $15,000 |
| Freight-in | $300 |
| Office Expense | $1,000 |
| Opening Inventory | $13,000 |
| Purchases | $125,000 |
| Purchases Returns and Allowances | $4,000 |
| Salaries Expense | $50,000 |
| Sales | $200,000 |
| Utilities Expense | $4,700 |