Name: ______ Section: G____

Score: ____ / 100

This quiz is worth 7.5% of the overall course grade. You have 60 minutes from the start of class to complete the quiz. The quiz will be graded out of a total of 100 points. Read each question carefully and do your best to answer it. Make sure to show your work when answering questions, as partial credit will be awarded for work that, while not leading to the correct answer, shows significant progress towards it.

This quiz is a closed-book quiz. You may only use calculators, along with other devices as explicitly allowed by university policy.

This guiz asks you to solve 3 questions, each based on a described situation. Write your final answers in the space provided. You may use the other whitespace provided for showing your work. You may also use the last page of the exam as additional scratch paper, if needed. If rounding is not mentioned in a question, you may round to the nearest integer.

When you are finished, you may turn the quiz in at the front. If you wish to use any electronic devices after finishing, please do so outside the classroom.

Question 1, Inventory (27 points), 3 parts

Score: ____/27

You are working for a small startup with the goal of sending a drone to the moon. As they have little financing, they decide to start out by selling t-shirts inspired by your company's vision. You started buying only a small quantity and selling at a relatively low price. After a good bit of publicity, the t-shirts became a viral sensation, allowing you to purchase larger amounts and sell at higher prices. A complete record of purchases and sales for the month are listed below.

Date	Details	
Starting balance	50 shirts at \$8 each	
Feb 2, 2018	Sold 10 at \$15 each	
Feb 9, 2018	Sold 20 at \$15 each	
Feb 12, 2018	Purchased 100 shirts at \$5 each	
Feb 16, 2018	Sold 80 at \$20 each	
Feb 19, 2018	Purchase 160 shirts at \$4 each	
Feb 23, 2018	Sold 80 at \$15 each	

Part 1) What is the company's revenue for the month? (3 points)

REVENUE		

Part 2) The company is debating whether to use *Perpetual FIFO* or *Perpetual Average Cost*. Calculate <u>COGS</u> and <u>Gross profit</u> under both methods. Extra space for work is provided on the next page. [Do not round prices while calculating average cost] **(20 points)**

	FIFO	AVERAGE COST
COGS		
GROSS PROFIT		

Part 3) The company's executives are debating which method to use. Some executives want to maximize net income to make the company's financials look more attractive to venture capital investors, while others want to save money by minimizing tax payments. Which method should each group push for? **(4 points)**

	MAXIMIZE NET INCOME	MINIMIZE TAX PAYMENTS
METHOD		

Extra space for work on Part 2:

Question 2, P&E (39 points), 5 parts

Score: ____/39

On April 1, 2017, Coffee Corp acquired an industrial grade coffee roasting machine from Germany.

Part 1) To acquire the machine, they paid \$50,000. The machine was shipped FOB destination at a cost of \$1,000. To import the machine they paid a \$500 stamp duty. They paid a technician \$300 to inspect the machine before use. They also tested the machine; the test cost \$100 to run and produced \$100 of useful inventory. After the successful test, Coffee Corp held a celebratory coffee tasting, costing \$200 in inventory and a few broken mugs due to over-caffeination. After 1 month of usage, they had routine maintenance on the machine. Which of these costs should they include in the value of the machine? Select *No* if the net effect of a cost on the machine's value is 0. **(8 points)**

Cost	Include? Yes or No	Cost	Include? Yes or No
Purchase price		Testing costs	
Shipping		Celebratory party	
Tax (stamp duty)		Broken mugs	
Inspection		Routine maintenance	

Use the following information for Parts 2 through 4. Suppose that after substantial maintenance work on January 1, 2018, the machine is now able to work twice as fast. Due to this substantive difference in function, Coffee Corp decides to revalue the asset. It determines that the machine has \$64,000 of value, a useful life of 8 years and a salvage value of 28,000. Coffee Corp's fiscal year end is December 31st.

Part 2) If they use double declining balance depreciation, what are the amounts of depreciation they will record on December 31st, 2018, 2019, and 2020? **(9 points)**

31 DEC 2018	31 DEC 2019	31 DEC2020

Part 3) If they use straight line depreciation, what are the amounts of depreciation they will record on December 31st, 2018, 2019, and 2020? **(6 points)**

31 DEC 2018	31 DEC 2019	31 DEC 2020

Part 4) If they use units of production depreciation, and they use 10%, 20%, and 10% of the asset's lifetime production capacity in the years 2018, 2019, and 2020, respectively, what are the amounts of depreciation they will record for each of these three years? **(6 points)**

2018	2019	2020

Part 5) Suppose that on Coffee Corp's financial statements as of December 31, 2022, the roaster is listed on Coffee Corp's books with a cost of \$64,000 and accumulated depreciation of \$22,500. On March 31st, 2023, Coffee Corp decides to exchange the coffee roaster for warehouse space worth \$41,500. If they kept the roaster for the full year, they would record \$4,500 of straight line depreciation on it on December 31, 2023. What is the journal entry they would record for this exchange? **(10 points)**

DATE	ACCOUNTS	DR	CR	
2023.03.31				

Question 3, Liabilities (34 points), 5 parts

Score: ____/34

In March 2018, there were rumors that Qualcomm, a US semiconductor company, would be acquired by Singaporean company Broadcom Limited. Details emerged that Broadcom would offer \$117B USD for the acquisition. However, as of Q4 2017, Broadcom only had \$11B of cash on hand. Consider what would happen if Broadcom was to issue a bond to help with this acquisition.

Suppose that Broadcom issued a \$20,000M bond with a 3% coupon rate to help raise cash for the acquisition. The bond has 20 years of life with semiannual coupon payments and a 30/360 day basis.

Part 1) If Broadcom issues this bond at par on March 31, 2018, how much interest expense will they record each coupon period? [*Record values to the nearest million.*] **(5 points)**

INTEREST EXPENSE

Part 2) Broadcom's fiscal year end in 2018 is October 28th. How many days of accrued interest will Broadcom need to account for in their adjusting entry on October 28, 2018? **(5 points)**

DAYS TO ACCRUE INTEREST

Part 3) Given the political uncertainty surrounding the acquisition, suppose that Broadcom instead is forced to offer the bond at a 4% yield. What would be the price of the bond in this case? [Record values to the nearest million.] (10 points)

PRICE AT 4% YIELD

Practice for Quiz 2 #2 – ACCT 101

Part 4) At the same the acquisition was being discussed, there were rumors that Intel, a competitor of Qualcomm and Broadcom, might attempt to acquire both companies. If investors are bullish on this proposition, it is possible that Broadcom could instead issue the bond at a premium. If Broadcom was able to issue the bond at a price of \$24,000M, corresponding to a yield of 1.80%, how much interest expense would they record for the first coupon payment? For the second coupon payment? Ignore any adjusting entries. [Record values to the nearest million.] **(10 points)**

INTEREST EXPENSE – COUPON 2

Part 5) If Broadcom issued the bond as a premium bond as in Part 4, what is the total amount of interest expense they would save over the 20 years, as compared to if they issued the bond at par? *[Record values to the nearest million.]* (4 points)

TOTAL INTEREST EXPENSE SAVED