Questions 1 & 2: 20 points each, questions 3 - 14: 5 points each

1. You have a prescription to prepare 150 ml of clonidine 0.1 mg/5 ml suspension. The patient is to take one teaspoonful every morning. You have clonidine 0.1 mg tablets and distilled water. Assume that it will take 20 minutes to prepare this prescription.

Clonidine 0.1 mg tablets \$30/#100 tabs, Lot #STS62, Expires 07/2015 Distilled water, \$1/1000mL, Lot #73, Expires 09/2014

- A. Calculate the amount of each ingredient needed to compound the prescription
- B. Calculate the cost of each ingredient and the total cost of the prescription. Labor should be estimated at \$40/hour.

- C. If you charge a \$5.00 dispensing fee, what will be the selling price of the prescription?
- D. The patient is given a 10% discount, what is the final sales price of the prescription?
- E. What is the expiration date you would assign to this prescription and what is the days supply you would report to the insurance company?

2. A prescription is written for salicylic acid 1%, menthol 1/4% in Eucerin cream. The cream should be applied twice daily. The prescription calls for 200 g of the cream. The prescription will take 15 minutes to prepare. Assume the patient will use 2g each time it is applied.

Salicylic Acid powder cost \$5/5g. Lot # X1B, Expires 03/2017 Menthol crystals cost \$5/g. Lot 37X, Expires 03/2017 Eucerin cream cost \$9.40/240g. Lot SR71, Expires 08/2017

A. Calculate the amount of each ingredient needed to compound the prescription.

B. Calculate the cost of each ingredient and the total cost of the prescription. Labor should be included at \$40/hour.

C. If you charge a \$6.00 dispensing fee, what will be the selling price of the prescription?

- D. The patient is given a 5% discount, what is the final sales price of the prescription?
- E. What is the expiration date you would assign to this prescription and what is the days supply you would report to the insurance company?

Use the following to answer questions 3-6:

Use this table to determine the dispensing/professional fee:

AWP Dispensing/Professional Fee

less than \$20.00 = \$4.00 \$20.01 - \$50.00 = \$5.00 Greater than \$50.01 = \$6.00

then calculate the gross profit and the net profit for the following prescriptions:

3.	Metoprolol 50 mg, 60 tablets, acquisition cost = \$5.20, Gross profit AWP = \$8.80, selling price = \$11.99 Net profit
4.	Lisinopril 20 mg, 90 tablets, acquisition cost = \$35.80, Gross profit AWP = \$42.80, selling price = \$45.99 Net profit
5.	ProAir HFA 8.5 g, acquisition cost = \$37.50, Gross profit AWP = \$40.98, selling price = \$43.50 Net profit
6.	Amoxicillin 500 mg, 90 capsules, acquisition cost = \$7.80, Gross profitAWP = \$12.80, selling price = \$18.99 Net profit

Use the following to answer questions 7-10:

Calculate the retail price of the following prescriptions using the formula AWP + professional fee = retail price of prescription if the professional fee is determined using the following chart: AWP Professional Fee

less than \$20.00: \$4.00 \$20.01 - \$50.00: \$5.00 Greater than \$50.01: \$6.00

7. ProAir HFA 8.5 gr AWP/8.5 gm \$40.98 retail price _____

8.	Guanabenz	4 mg 1 abs #3	U AWP/100 \$66	20 retail price	
9.	Fluocinolon	ne Cream 0.02	5% 15 Gm AWP	/15 GM \$3.05 retail]	price
10.	Amantadine	e Syrup 4 oz. <i>A</i>	AWP/PINT \$61.5	1 retail price	
Use the	following to	o answer quest	tions 11-14:		
			wable if a third-p or insurance purp	* <u>*</u>	4-day supply, adjust the
11.	Hydroxychl 2 PO daily 2 refills	loroquine 200	mg #100		
		_ qty	refills	partial	days supply
12.	40 units dai 2 refills	ly	10 ml 3 bottles.	partial	days supply
13.	(200 sprays) May repeat 2 refills	q5 minutes up	2 metered doses (to a max. = 3 do	400–800 μg) SL. ses/15 min partial	days supply
14.		e 500 mg #10		partial	days supply
	1 g p.o. dail 2 refills	ly			J 1
		_ qty	refills	partial	days supply

Answer Key

- 1. 2.
- 3. \$6.79, \$2.79
- 4. \$10.19, \$5.19
- 5. \$6.00, \$1.00
- 6. \$11.19, \$7.19
- 7. \$46.98
- 8. \$23.86
- 9. \$7.05
- 10. \$19.38 (*Hint:* [\$61.51/4] = \$15.38 + \$4.00 professional fee for less than \$20.00 AWP = \$19.38)
- 11. 68, 3, 28, 34
- 12. 1 bottles & 8 refills of 1 bottle
- 13. 1 box + 8 refills (This is a problem that was added to extend to practical applications in the workplace and only provides the information that is provided by prescribers when they write prescriptions. Nitolingual spray is used to treat acute angina attacks and it is only used occasionally. Because of the nature of the medication, third-party plans would cover one box at a time. If one box would be dispensed at a time because of insurance restrictions, it would be necessary to adjust the refills to 8).
- 14. 68, 3, 28 (The dose is two tablets per day. 68 tablets would provide a 34 day supply. If 68 tablets would be dispensed per RX, there would be 3 refills of 68 and one partial refill of 28 would remain).

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