PHT 210
Quiz (1)

Student Name:

Student Identity Number:

Questions:

1: _____

2: _____

3: _____

4: _____

6: _____

7: _____

8: _____

9: _____

10: _____

Total: _____

Answer the following questions showing ALL THE STEPS needed to reach the final answer.

1- Right the following in Roman numerals:

A- 1436
B- 22546
C- 77
D- 398
E- 3999

2- How many $3.2 * 10^{-7}$mg doses can be made from $0.02 * 10^{3}$ g ? EXPRESS THE ANSWER AS EXPONENT

3- A prescription contains $\frac{3}{5}$ mg of ingredient A. $\frac{3}{2}$ g of ingredient B. $\frac{2}{7}$ mg of ingredient C. Calculate the total weight of ingredients in the prescription? SHOW THE ANSWER IN COMMON FRACTION ONLY?

4- If you receive a prescription with instructions to dispense 0.5 tablet of drug A three times a day for 15 days. 1 ½ tablet of drug B four times a day for 10 days. How many tablets of drug A and drug B will you give to the patient?

5- As a director for a pharmacy it was brought to your attention that the percentage error for the dispensed prescriptions is increasing. You decide to increase the staff so the pharmacists dispense 20% less prescriptions every day. If the average pharmacist dispenses 225 prescriptions per day how many prescription a pharmacist will dispense after increasing the staff?

6- If an ophthalmic solution has pilocarpine concentration of 5 mg/2 mL and that each drop contains $7.6 * 10^{-3}$ mg of pilocarpine. Also, the eye drop bottle contains only 2 mL of an ophthalmic solution. If the patient takes two drops in each eye six times a day for three months how many eye drop bottle will you dispense?

7- A prescriptions comes to you containing three ingredients A, B, and C. The doctor asked to make a 150 mg tablets containing the three ingredients in the ratio of 1: 5: 3 for A: B: C. How many mg of each ingredient will be in each tablet?

8- If a patient is being a administered 2.9 L over 8-hour period and you know that each mL represents 10 drops. How many drops should the machine deliver to the patient every second? USE DIMENTIONAL ANALYSIS APROACH.

9- Approximately 0.05 % of drug A was detected in human breast milk after 0.5 g dose. Calculate the quantity of the drug detected in milligrams?

10- Mark the number/s with one significant figure?

A- 0.00006
B- 0.60001
C- 0.00000258
D- 1.0
E- 2.1
F- 21
G- 0.1
H- 3