PHT 210
Quiz (2)

Student Name:

Student Identity Number:

Questions:

1: _____

2: _____

3: _____

4: _____

5: _____

6: _____

7: _____

8: _____

9: _____

10: _____

Total: _____

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

1- Convert the following (volume, weight, and length) to Micro-
   A- 200 meter
   B- 133 gram
   C- 7 kiloliter
   D- 2000 nanometer
   E- 577 microliter

2- When a patient receives an intravenous solution containing 0.2 dekagram of drug A in 1 quarts at the rate 100 mL/2 hours. How many micrograms of drug A is being administered every 2 minutes?

3- A Haleion® tablet contains $25*10^9$ picogram of triazolam. How many grains of traizolam would be present in 100 tablets of Haleion®?

4- Zovirax® tablet contains the antiviral drug acyclovir. To treat a chickenpox disease the patient needs 80000 mcg/kg/day for 7 days. If a patient weighs 170 Ib, how many ounces will the patient consume after the end of the 7ᵗʰ day.

5- If you want 8000 mL of drug A and you asked the technician to look in the stock room. He found three bottles containing drug A. In bottle I he found 7.25 L, in bottle II 875 cL, and in bottle III 3000 μL. How many how many fl ʒ are in the stock room and is it enough for you?

6- If molecule A needs 200 femtosecond to break down when exposed to sunlight. How many seconds does it take molecule A to break down?

7- A doctor advised a patient to take 2 table spoonful three times a day for 14 days of drug A. If the doctor asked you as a pharmacist that the patient should be taking 2000 mcg for each 2 tbsp. What is the concentration of the drug that the patient should use in ng/2 mL?

8- If the density of drug A is 2000 ng/cL. What is the density in g/cc ?

9- If you are asked to calculate the cost of 85 mega liter of polyethylene glycol and you know that its density equals 1.3 mg/cc. Also, you found that each 100000 mcg costs 0.002 Dollars. What is the cost of 85 mega liter of polyethylene glycol?

10- How many microliters of 33.5% w/w hydrochloric acid are needed to prepare one gallon of 20% w/v acid? Specific gravity of HCl is 1.20?