Pharm Med Math Assignment P.g. 121 Prof. Test

1. Order: Potassium Chloride 20mEq P.O. in Juice BID.
Supply: liquid in a bottle labeled 30mEq/15mL

$$20\text{mEq} \times \frac{15\text{mL}}{30\text{mEq}} \quad \frac{300}{30} = 10\text{mL}$$

2. Order: Syrup of tetracycline (Sumycin) hydrochloride 80mg po q6h.
Supply: liquid dropper bottle Labeled 125mg/5mL

$$80\text{mg} \times \frac{5\text{mL}}{125\text{mg}} \quad \frac{400}{125} = 3.2\text{mL}$$

3. Order: propanolol (Inderal) 0.02 g p.o. bid
Supply: Scored tablet labeled 10mg

0.02g x 1000 = 20 ÷ 10 = (2 tabs)

4. Order: Ampicillin Sodium 0.5g p.o. q6h.
Supply: Capsules of 250 mg

0.5 x 1000 = 500mg ÷ 250 = (2 tabs)

5. Order: Digoxin (Lanoxin) 0.5mg P.O. qd
Supply: Scored tablet of 0.25mg

0.5 ÷ 0.25 = 2 tabs

. Order: Prednisone (Deltasone) 40mg p.o. qd
Supply: Liquid in a bottle labled 5mg/5mL

$40\text{mg} \cdot \frac{5\text{mL}}{5\text{mg}} = \frac{200}{5} = 40\text{mL}$

7. Order: HCTZ (Hydrodiuril) 75mg p.o. qd
Supply: Scored tablet 50mg

$75\text{mg} \div 50 = 1.5 \text{ tabs}$

8. Order: Furosemide (Lasix) 40mg p.o. qd
Supply: Scored tablet of 80mg

$40 \div 80 = 0.5 \text{ tabs}$

9.) Order: Digoxin (Lanoxin) 0.125 mg PO.
Supply: Liquid in a dropper labled 500 mcg/10mL

$0.125\text{mg} \cdot \frac{10\text{mL}}{0.5\text{mg}} \quad \frac{1.25}{0.5} = 5\text{mL}$

10. Order: phenytoin (Dilantin) Susp 75 mg po Tid
Supply: Liquid in a bottle Labled 50mg/10mL

$75\text{mg} \cdot \frac{10\text{mL}}{50\text{mg}} = \frac{750}{50} = 15\text{mL}$

11. Order: Diazepam (Valium) 5mg PO q4h PRN
Supply: Scored table 2mg

$5 \div 2 =$ 2.5 tabs

12. Order: Levothyroxine (Synthroid) 0.15 mg PO qd
Supply: Scored tablet 300 mcg

$150 mcg \div 300 mg =$ 0.5 tab

13. Order: disulfiram (Antabuse) 375mg P.O. today
Supply: Scored 250mg tablet

$375 \div 250 = 2.7$ tab

14 Order: ibuprofen (Advil) 0.6g p.o. q4h PRN
Supply: film coated tabut 300mg

$600 mg \div 300 mg =$ 2 tabs

15 Order: Chlorpheniramine maleate (Chlor-Trimeton) Syrup 1.5mg p.o. B
Supply: Liquid in a bottle 1mg/8mL

$$1.5 \text{ mg} \quad \frac{8 \text{mL}}{1 \text{mg}} = \frac{12}{1} = 12 \text{ mL}$$

16. Order: diphenhydramine Maleate (Benadryl) Syrup 25mg P.O. q 4h
Supply: Liquid Labeled 12.5/5mL

$$25\,mg \cdot \frac{5mL}{12.5mg} = \frac{125}{12.5} = 10\,mL$$

17 Order: Simethicone (mylicon) Liquid 60mg p.o. in 1/2 glass H_2O
Supply: Liquid in a dropper bottle Labeled 40mg/0.6mL

$$60mg \cdot \frac{0.6mL}{40mg} \quad \frac{36}{40} = 0.9\,mL$$

18 Order: Chlorothiazide (Diuril) Oral Susp. 0.5 g Via NGT p.o. qd
Supply: Liquid Labeled 250mg/5mL.

$$500mg = \frac{5mL}{250mg} \quad \frac{2500}{250} = 10\,mL$$

19. Order: Meperidine HCl (Demerol) Syrup 15mg p.o. q4h PRN
Supply: Liquid Labeled 50mg/5mL

$$15mg \cdot \frac{5mL}{50mg} \quad \frac{75}{50} = 1.5\,mL$$

20. Order: Hydroxyzine (Vistaril) Susp 50 mg q6h P.O.
Supply: Liquid Labeled 25 mg/5mL

$$50mg = \frac{5mL}{25mg} \quad \frac{250}{25} = 10\,mL$$

Pharm Mod Math Assignment Pg 198 Prof. Test

1. Order: 0.5g Im = 500mg
Supply: 250mg/mL

$$500\text{mg} \times \frac{1\text{mL}}{250\text{mg}} = \frac{500}{250} = 2\text{mL}$$

2. Order: 10mEq IV
Supply: 40mEq/20mL

$$10\text{mEq} \times \frac{20\text{mL}}{40\text{mEq}} = \frac{200}{40} = 5\text{mL}$$

3. Order: 0.5mg Im
Supply: 0.25mg/mL

$$0.5\text{mg} \times \frac{1\text{mL}}{0.25\text{mg}} = \frac{0.5}{0.25} = 2\text{mL}$$

4 Order: 100mg Im
Supply: 0.2g/2mL

$$100\text{mg} \times \frac{2\text{mL}}{0.2\text{g}} \cdot \frac{1\text{g}}{1000\text{mg}} = \frac{200}{200} = 1\text{mL}$$

5. Order: 50mg Im
Supply: 100mg/1mL

$$50\text{mg} \cdot \frac{1\text{mL}}{100\text{mg}} \quad \frac{50}{100} = 0.5\text{mL}$$

6. Order: 0.25mg Im
Supply: 0.5mg/2mL

$$0.25\,mg = \frac{2mL}{0.5mg} \quad \frac{0.5}{0.5} = 1mL$$

7 Order: 0.3 mg SubQ
Supply: 0.4mg/mL

$$0.3mg \times \frac{1mL}{0.4mg} = \frac{0.3mg}{0.4mg} = 0.75 \text{ or } 0.8mL$$

8) Order: 1mg SubQ
Supply: 1:1000 Solution = 1g/1000mL

$$1\,mg \times \frac{1000mL}{1g} \quad \frac{1g}{1000mg} = \frac{1000mL}{1000} = 1mL$$

9. Order: 1g IV
Supply: 5% Solution = 5g in 100mL

$$1g, \frac{100mL}{5g} = \frac{100}{5} = 20mL$$

10 Order: 0.1g Im
Supply: 250mg/5mL

$$0.1g \times \frac{5mL}{250mg} = \frac{1000mg}{1g} = \frac{500}{250} = 2mL$$

11. Order: 400,000 units Im
Supply: 500,000 units/mL

$$400{,}000 \times \frac{1}{500000} = 0.8\,mL$$

12 Order: 0.5mg Im
Supply: 0.5mg / 2mL

2mL

13. Order: 1g IV
Supply: 50% Solution 50g in 100mL

$$1\,g \times \frac{100\,mL}{50\,g} = \frac{100}{500} = 2\,mL$$

14. Order: 75mg Im
Supply: 100mg/2mL

$$75 = \frac{2}{100} = \frac{150}{100} = 1.5\,mL$$

15. Order: 15mg Im
Supply: 1:100 Solution = 1g in 100mL

$$15\,mg \times \frac{100\,mL}{1\,g} \quad \frac{1\,g}{1000\,mg} \quad \frac{1500}{1000} = 1.5\,mL$$

16. Order: 35 mg Im
Supply: 100 mg / mL

$$35\ \text{mg} \times \frac{1\ \text{mL}}{100\ \text{mg}} = \frac{35}{100} = 0.35 \text{ or } 0.4\ \text{mL}$$

17. Order: 0.6 mg SubQ
Supply: 0.4 mg per mL

$$0.6\ \text{mg} \times \frac{1\ \text{mL}}{0.4\ \text{mg}} \quad \frac{0.6}{0.4} = 1.5\ \text{mL}$$

18. Order, 0.15 g Im
Supply: 0.2 g / 2 mL

$$0.15\ \text{g} \times \frac{2\ \text{mL}}{0.2\ \text{g}} = \frac{0.3}{0.2} = 1.5\ \text{mL}$$