

Borough of Manhattan Community College Department of Mathematics

MAT 104 - _____

Name _____

Date _____

Prof. L.Erstenyuk

EXAM 1 REVIEW

Directions: Practice to show all work to receive a full credit on the actual exam. Simplify and label the answers. No calculators allowed on the exam. The actual exam will be graded on clarity, organization, neatness, as well as correctness. Total points on the exam 100.

Part I. Math Refresh.

1. Find the largest decimal: 0.029, 0.0074, 0.003, 0.0289

Answer: _____

2. Subtract: $12 - 0.07$

Answer: _____

3. Add: $8.34 + 1.26$

Answer: _____

4. Multiply: 3.62×0.005

Answer: _____

5. Divide the fraction. Round the answer to the nearest hundredths.

$$\frac{0.127}{0.22}$$

Answer: _____

6. Perform the following operations. Round the answer to the nearest tenth.

$$\frac{0.48}{1.1} \times \frac{0.5}{0.8}$$

Answer: _____

Part II. Introduction to Drug Measures

In problems 7-10 convert to the units indicated.

7. 1.2 L = _____ mL; 750 mL = _____ L

8. 234 mcg = _____ g = _____ mg

9. 3.8 g = _____ mg; 50 mg = _____ g

10. 2 tbs = _____ mL = _____ Oz

11. ISMP (or TJC) is an abbreviation* (*hint: Review <https://www.ismp.org/about>, or <https://www.jointcommission.org/about-us/about-the-joint-commission-main.aspx>)

The organization provides the following services _____

12. Describe the Right Route of medication administration ** _____

13. Describe the Right Client of medication administration** _____

(**Hint: could be any 2 rights of safe medication administration)

14. Interpret the following abbreviations (could be any highlighted in class).

a) q4h	b) IM	c) q.i.d.
d) n.p.o.	e) LA	f) a.c.

15. Interpret the following orders. Use *administer* or *give* at the beginning of the sentence.

a) Vitamin B₁₂ 1,000 mcg IM T.i.w.

b) Morphine sulfate 15 mg subcut stat and 10 mg subcut q4h p.r.n. for pain.

16. Transcribe the following orders to the Medication Administration Chart (MAR) for one shift from 8:00 am to 8:00 pm. When you have completed this, place your initials and signature in the appropriate space on the medication form. Use the times indicated and the beginning date 10/01/18. Indicate client has no known drug allergies. Diagnosis: Pneumonia.

- a) Ibuprofen 400 mg tab p.o. b.i.d. (9A), expiration date 10/10/18.
- b) Amoxil 1 tsp. p.o. q8h (9A), expiration 10/10/18.
- c) Diclofenac 125 mg IM stat, expiration 10/10/18

(8 points)

**DEPARTMENT OF NURSING
MEDICATION RECORD**

Diagnosis:
ALLERGIES Date _____

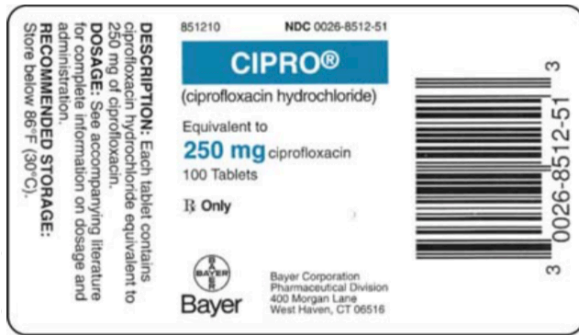
Order Date	Exp. Date	Initials	PRN MEDICATIONS MED=Dose_Freq-Route	Date	Time		
				Date			
				Time			
				Initial			
				Date			
				Time			
				Initial			
				Date			
				Time			
				Initial			

Part III. Reading Medication Labels and Syringe Calibrations.

17. Read the label and identify the information requested.

(9 points)

a)



Trade Name

Generic Name

Total amount in container

Dosage strength

Form

Storage directions

b)



Trade Name

Generic Name

Total volume

Dosage strength

Route

c)



The route of administration for this medication would be _____.

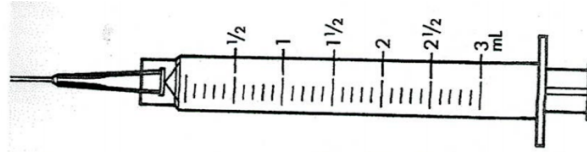
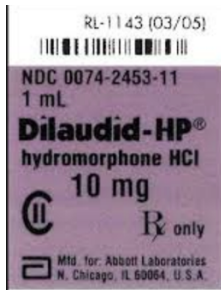
This Medication contains _____ mg of Carbidopa and _____ mg of Levodopa. The total amount in the container is _____ tab.

18. Order: Biaxin 0.5 g p.o. q12h

Available: Tablets labeled 250 mg. Calculate the amount of medication to be administered.

19. Order: Dilaudid HP 4 mg subcut q4h p.r.n. for pain.

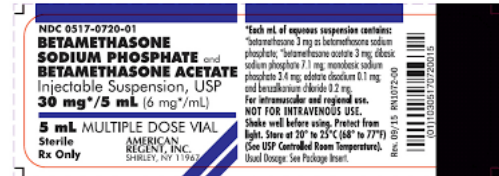
Available:



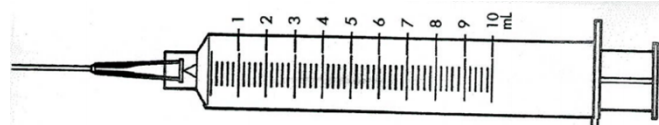
Calculate the dosage to be administered and indicate it on the syringe.

20. Order: Betamethasone Sodium Phosphate and Betamethasone Acetate 25 mg IM q12h

Available:



Calculate the dosage to be administered and indicate it on the syringe.



21. Order: Omnicef 300 mg p.o. q12h.

Available:



a) How much diluent must be added to prepare the solution? _____

b) What diluent is recommended for reconstitution? _____

c) What is the dosage strength of the reconstituted solution? _____

d) How many milliliters will you administer? _____

22. Order: Penicillin G potassium 300,000 units IM q4h
Available:

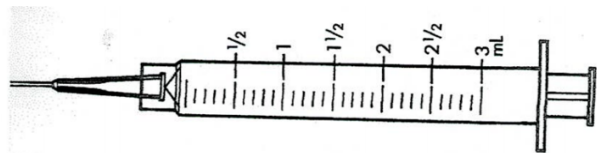


a) Which dosage strength would be best to choose? _____

b) How many milliliters of diluent would you add to make the dosage strength? _____

c) How many milliliters will you administer? _____

d) Shade the dosage calculated on the syringe provided



23. Critical Thinking *Scenario*: Order: Diflucan 150 mg p.o. daily. The pharmacy sends two 100-mg unscored tabs.

a) What action should you take to administer the dosage ordered? _____

b) What is the rationale for your action? _____

24. Critical Thinking *Scenario*. A client is to receive Humulin R U-100 15 units subcut and Himulin N U-100 21 units subcut before breakfast. In drawing up the insulins in the same syringe, the nurse used the following technique:

- a) Injected 15 units of air into the regular vial.
- b) Injected 21 units of air in the NPH vial.
- c) Withdrew 21 units of NPH insulin, then the 15 units of regular insulin.

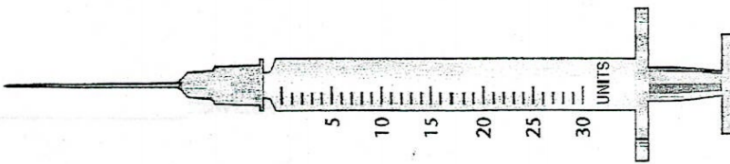
Questions:

a) What is the error in the technique of drawing up two insulins? _____

b) What is the potential outcome from the technique used? _____

25. Shade the dosage of insulin on the syringe provided.

a) Order: Humalog Insulin U-100 7 units subcut stat.



b) Order: Novolin R U-100 26 units subcut and Humulin N U-100 43 units subcut every day at 8:00 am.

