

UNIVERSITY OF MASSACHUSETTS BOSTON
College of Nursing and Health Sciences
SAFE ADMINISTRATION OF MEDICATION EXAM (SAME)
SAMPLE 400 Level

Name: _____

Email: _____

Phone number where a message can be left: _____

If you need to retake the SAME, would you prefer to be notified by email ____ or telephone _____?

DIRECTIONS:

1. You may use 2 hours to complete the exam. There are 20 questions. Please review your work before turning in your exam for grading.
2. Include all of your work and calculations on this paper.
3. NO CALCULATORS.
4. Carry out your work to three (3) decimal places and round the final answer to 2 decimal places (i.e. 1.25).
5. Place your answer on the line provided including the correct label (i.e. mg, ml, gtts/min, etc.)
6. GRADING:
 - The Passing score is 85.
 - Answers without labels and problems that do not show the math calculations will be marked incorrect.
 - Only students who need to retake the SAME will be notified.
 - Passing scores will be posted outside the CNHS office on the bulletin board by the number on the upper right hand corner or this page.
 - You will be notified as soon as possible if your grade is less than 85.
7. In recognition of both the spirit and intent of the UMB Student Code of Conduct, no student should collaborate with another during the testing period today. Each member of the class agrees to do their own thinking and work on the exam. Members of this class agree not to discuss the content of this exam with anyone who has not yet taken the SAME exam.

(Student's signature of acknowledgement and agreement)

1. Fill in the following conversions: (1 point each)
- a. 2 teaspoons = _____ ml = _____ cc
 - b. 1.5 ounce = _____ ml
 - c. 8.8 pounds = _____ kg = _____ grams
2. Order: Amoxicillin 750 mg PO Q 8 hours
Drug Available: Amoxicillin 0.25 gm per tablet
What will you give?
(show all work, place your answer on the line provided and label it)
-

3. Order: Digoxin (Lanoxin) 0.5 mg
Drug Available: Digoxin (Lanoxin) 250 mcg per tablet
What will you give?
(show all work, place your answer on the line provided and label it)
-

4. Order: Cefuroxime Axetil (Ceftin) 400 mg, Q12 hours
Drug Available: Ceftin 125 mg per 5 ml
What will you give?
(show all work, place your answer on the line provided and label it)
-

5. Order: Penicillin V Potassium 0.4 gm P.O. every 6 hours
Drug Available: Penicillin V Potassium 250 mg per 5 ml
What will you give?
(show all work, place your answer on the line provided and label it)

6. Order: Ranitidine HCL (Zantac) 35 mg IM Q 8 hours
Drug Available: Zantac (Ranitidine Hydrochloride) 25 mg/ml
What will you give?
(show all work, place your answer on the line provided and label it)

7. Order: Oxacillin Sodium 300 mg, IM Q6 hours
Drug available: Oxacillin Sodium powder in a 1 Gm vial. Instructions say to add 5.7 ml sterile water for injection. Each 1.5 ml will contain 250 mg of oxacillin.
How much will you give?
(show all work, place your answer on the line provided and label it)

8. Order: 1 liter of NS IV in 12 hours.
Available: 1 liter of NS; IV set labeled 15 gtts/ml.
How many gtts/min shall the patient receive?
(show all work, place your answer on the line provided and label it)
- _____
9. Order: Give 500 ml of 0.45 NS IV over 4 hours.
Available: 1 liter of 0.45 NS; IV set label 10 gtts/ml.
How many gtts/min should the patient receive?
(show all work, place your answer on the line provided and label it)
- _____
10. Order: Give Clindamycin 600 mg over 90 minutes
Available: Clindamycin 600 mg/150 ml of D5W; IV infusion pump
At how many ml per hour will you set the pump?
(show all work, place your answer on the line provided and label it)
- _____

11. Give: Cefepime HCl (Maxipine) 0.5 g, IV, over 20 minutes
Available: Cefepime 500 mgs in 50 ml of D5W; infusion pump
At how many ml per hour will you set the pump?
(show all work, place your answer on the line provided and label it)
-

12. Order: Give Heparin 900 units/hour
Available: Heparin mix: 25,000 units/ 500 ml D5W; infusion pump
At how many ml per hour will you set the pump?
(show all work, place your answer on the line provided and label it)
-

13. Order: Give Dopamine 400 mcg/min
Available: Dopamine 800 mg in 500 ml D5W; IV infusion pump
At how many ml per hour will you set the pump?
(show all work, place your answer on the line provided and label it)
-

Questions 14 and 15 refer to the following situation related to a child with a cardiac disorder:

Order: Lanoxin pediatric elixir 0.75 mg, po, daily.

Available: Lanoxin 0.05 mg/ml

Child's age and weight: 3 years, 33 pounds

Pediatric dose range: 0.041 – 0.06 mg/kg

- 14a. What is the child's weight in kilograms? (1 point)
(show all work, place your answer on the line provided and label it)

- 14b. What is the safe dose range? (2 points each)
(show all work, place your answer on the line provided and label it)

Low end of range

High end of range

- 15a. Is this ordered dose within the safe range? (1 point)
Circle your answer Yes No

- 15b. If the order is safe, how much will you give? (4 points)
(show all work, place your answer on the line provided and label it)

Questions 16 and 17 refer to the following situation:

Order: Acetaminophen 240 mg Q 4-6 hours PRN

Available: Acetaminophen suspension 160 mg/5 ml

Child's age and weight: 5 years; 50 lbs 4 oz

Pediatric dose range: 10-15 mg/kg Q 4-6 hours

16. What is the safe dose range? (2.5 points each)
(Show all work, place your answer on the line provided and label it)

Low end of range

High end of range

- 17a. Is the amount ordered appropriate? (1 point) Yes No
- 17b. If the order is safe, how much will you give? (4 points)
(show all work, place your answer on the line provided and label it)

Questions 18, 19, and 20 refer to the following situation:

Order: Give IV Piperacillin 200 mg/kg/day divided into four doses

Available: Piperacillin 20 mg/ml for intermittent infusion; IV set labeled 60 gtts/ml

Child's weight: 44 pounds

Instructions: Infuse over 40 minutes

18. How much Piperacillin should the patient receive per dose?
(show all work, place your answer on the line provided and label it)

19. How many ml of Piperacillin will you give per dose?
(show all work, place your answer on the line provided and label it)

20. How many gtts/min should the patient receive?
(show all work, place your answer on the line provided and label it)
