



OAKLAND
COMMUNITY
COLLEGE

NAME _____

NURSING DEPARTMENT
MEDICATION CALCULATION PROFICIENCY
LEVEL III
PRACTICE TEST
2009-2010

DIRECTIONS:

- Directions:
1. READ CAREFULLY
 2. Put your name on the test booklet
 3. Show all your work on the test booklet
 4. Place your final answer in the answer box for each question with the correct label
 5. A basic calculator may be used.

1.	<p>The order is for Synthroid 1000 mcg po daily. Available to the nurse is Synthroid 1 mg/tablet. The nurse would administer how many tablets?</p> <div data-bbox="233 310 505 409" style="border: 1px solid black; height: 47px; width: 167px; margin: 10px 0;"></div>
2.	<p>The order is for enoxapin (Lovenox) 1 mg/kg subcutaneously daily. The patient weighs 150 pounds. Available to the nurse is 30 mg/0.3 ml. The nurse would administer how many ml's?</p> <div data-bbox="245 619 509 741" style="border: 1px solid black; height: 58px; width: 163px; margin: 10px 0;"></div>
3.	<p>The order is for 1000 ml of 5%D/.9NS every 12 hours. The IV tubing delivers 10 gtts/ml. The rate of the infusion will be how many gtts/min?</p> <div data-bbox="245 976 516 1123" style="border: 1px solid black; height: 70px; width: 167px; margin: 10px 0;"></div>
4.	<p>The order is for 13 units of NPH insulin subcutaneously every am. Humalin Regular insulin is ordered according to the following sliding scale: 2 units = 151-200 4 units = 201-250 6 units = 251-300 8 units = 301-350 10 units = 351-400 The morning blood glucose is 162. The nurse would administer a total of how many units of insulin?</p> <div data-bbox="245 1501 513 1623" style="border: 1px solid black; height: 58px; width: 165px; margin: 10px 0;"></div>
5.	<p>The IV order is for 1000 ml of 5%D.45NS to infuse at 42 ml/hr. The IV tubing delivers 10 gtts/ml. The IV will infuse over how many hours?</p> <div data-bbox="245 1822 513 1944" style="border: 1px solid black; height: 58px; width: 165px; margin: 10px 0;"></div>

6.	<p>The order is for 1000 mg of clindamycin hydrochloride (Cleocin) IVPB every 12 hours. Available to the nurse is 100 ml of D5W with 1 g of Cleocin with instructions to infuse over 60 minutes. The IV tubing delivers 10 gtts/ml. The rate of the infusion will be how many gtts/min?</p> <div data-bbox="245 407 516 552" style="border: 1px solid black; height: 69px; width: 167px; margin: 10px auto;"></div>
7.	<p>The order is for erythromycin 1500 mg IVPB every 18 hours. Available to the nurse is 250 ml of NS with 1500 mg of erythromycin with instructions to infuse over 90 minutes via an infusion pump. The nurse would set the rate on the infusion at how many ml's/hr?</p> <div data-bbox="245 810 516 955" style="border: 1px solid black; height: 69px; width: 167px; margin: 10px auto;"></div>
8.	<p>The order is for a heparin drip at 1500 units/hr. Available to the nurse is 250 ml D5W with 25,000 unit of heparin. At what rate will the nurse set the infusion pump?</p> <div data-bbox="256 1215 526 1337" style="border: 1px solid black; height: 58px; width: 166px; margin: 10px auto;"></div>
9.	<p>The order is for KCl 10 mEq IVPB over one hour. Available to the nurse is 100 ml of D5W with 10 mEq KCl. The IVPB is placed on an infusion pump. The nurse will set the rate on the infusion pump at how many ml's/hr?</p> <div data-bbox="269 1518 540 1663" style="border: 1px solid black; height: 69px; width: 167px; margin: 10px auto;"></div>

10.	<p>The order is for digoxin 0.25 mg po daily. Available to the nurse is digoxin 500 mcg/tablet. The nurse would administer how many tablets?</p> <div data-bbox="237 294 505 443" style="border: 1px solid black; height: 71px; width: 165px; margin: 10px 0;"></div>
11.	<p>The order is for Ampicillin 500 mg IVPB every 6 hours. Available to the nurse is 100 ml of D5W with 0.5 g of Ampicillin with instructions to infuse over 30 minutes via an infusion pump. At what rate will the nurse set the pump?</p> <div data-bbox="246 606 493 743" style="border: 1px solid black; height: 65px; width: 152px; margin: 10px 0;"></div>
12.	<p>A heparin drip is infusing at 2100 units/hr. The physician orders that heparin drip reduced to 1900 units/hr. Available is 250 ml D5W with 25,000 units of heparin. The IV tubing delivers 10 gtts/ml. The IV is infusing via an infusion pump. At what rate will the nurse set the pump?</p> <div data-bbox="246 1037 516 1205" style="border: 1px solid black; height: 80px; width: 166px; margin: 10px 0;"></div>
13.	<p>The order is for cefamondole nafat (Mandol) 500 mg every 6 hours. Available to the nurse is 100 ml of D5W with 500 mg of Mandol with instructions to infuse over 45 mins. The IV tubing delivers 10 gtts/ml. The rate of the infusion will be how many gtts/min?</p> <div data-bbox="256 1442 526 1587" style="border: 1px solid black; height: 69px; width: 166px; margin: 10px 0;"></div>
14.	<p>The order is for 1000 ml of 5%D.45NS every 24 hours. The IV tubing delivers 10 gtts/ml. The IV is infusing via an infusion pump. At what rate will the nurse set the infusion pump?</p> <div data-bbox="269 1751 539 1898" style="border: 1px solid black; height: 70px; width: 166px; margin: 10px 0;"></div>

15.	<p>The order is for aztreonam (Azactam) 2 grams IVPB every 12 hours. Available to the nurse 150 ml NS with 2000 mg of Azactam with instructions to infuse over one hour. The nurse will set the rate on the infusion pump at how many ml's/hr?</p> <div data-bbox="237 296 505 443" style="border: 1px solid black; height: 70px; width: 165px;"></div>
16.	<p>The order is for Tylenol #4 (codeine 60 mg/500 mg acetaminophen) 1 tablet every 4 hours prn. The patient has received only 1 tablet in the past 8 hours. How many tablets can the patient receive in the next 16 hours?</p> <div data-bbox="245 653 513 800" style="border: 1px solid black; height: 70px; width: 165px;"></div>
17.	<p>The order is for 1000 ml D5W every 6 hours. The IV tubing delivers 10 gtts/ml. The IV is placed on an infusion pump. The rate of the infusion will be how many ml/hr?</p> <div data-bbox="245 999 513 1146" style="border: 1px solid black; height: 70px; width: 165px;"></div>
18.	<p>The order is for Rocephin 500 mg IVPB every 8 hours. Available to the nurse is 100 ml of NS with 500 mg of Rocephin with instructions to infuse over 0.5 hours via an infusion pump. The nurse will set the rate on the infusion pump at how many ml's/hr?</p> <div data-bbox="245 1381 513 1528" style="border: 1px solid black; height: 70px; width: 165px;"></div>
19.	<p>The order is for Vicodin 1 tablet (hydrocodone 5 mg/ acetaminophen 500 mg) po every 4 hrs prn. The patient has already received 2 doses of Tylenol 650 mg for an elevated temperature on the midnight shift (at 0200 and 0600 hours) and has had 3 doses of Vicodin (at 0800,1300, & 1900 hrs). How many more Vicodin tablets can the patient safely receive?</p> <div data-bbox="269 1822 537 1969" style="border: 1px solid black; height: 70px; width: 165px;"></div>

20.	<p>Epogen 100 units/kg subcutaneously three times weekly is ordered for the patient who weighs 120 pounds. Available is Epogen 10,000 units/ml. The nurse would administer how many ml's per dose?</p> <div data-bbox="235 331 506 478" style="border: 1px solid black; height: 70px; width: 167px;"></div>

ANSWER KEY

ANSWERS - LEVEL 3 PRACTICE TEST

1. 1 tablet
2. 0.68 ml
3. 13.88 gtts/min or 14 gtts/min
4. 15 units
5. 23.8 hrs or 24 hrs
6. 16.66 gtts/min or 17 gtts/min
7. 166.66 ml/hr or 167 ml/hr
8. 15 ml/hr
9. 100 ml/hr
10. 0.5 tablet
11. 200 ml/hr
12. 19 ml/hr
13. 22.22 gtts/min or 22 gtts/min
14. 41.66 ml/hr or 42 ml/hr
15. 150 ml/hr
16. 4 tablets
17. 166.66 gtts/min or 167 ml/hr
18. 200 ml
19. 1 tablet
20. 0.545 ml or 0.55 ml