PHAR 632 Review
Oct 9th Workshop

1. One mM of NaCl is equivalent to
    a. One mOsmolar
    b. Two mOsmolar
    c. Half mOsmolar
    d. Cannot tell as the volume is not identified

2. One mMole of NaCl in 500 mL is equivalent to
    a. Half mOsmolar
    b. One mOsmolar
    c. Two mOsmolar
    d. Four mOsmolar

3. One molar of dextrose has the same osmolarity as
    a. Half molar of NaCl assuming complete dissociation
    b. One molar of NaCl assuming complete dissociation
    c. Two molar of NaCl assuming complete dissociation
4. The relation between the 2 quantities depends on the total volume.
    Rx
    Salol 300 mg
    Camphor 150 mg
    Kaolin 900 mg
    M et div. ft. cap. (size 000) No. 3
    Which of the following is correct regarding the above prescription?
    a. Each capsule has 300 mg salol
    b. Each capsule has 300 mg Kaolin
    c. Each capsule has 50 mg Camphor
    d. The total capsule content weight is 300 mg
    e. B and C
    f. All of the above

5. Rx
    Miconazole 6 g
    Corn Starch
    Talc aa QS AD 100 grams
    Dispense 75 g

    If the specific gravity of the powder is 1.2, what size container would you pick?
    a. 1 fl oz
    b. ½ fl oz
    c. 2 fl oz
    d. 3 fl oz

6. Rx
   Miconazole 6 g
   Corn Starch
   Talc aa QSAD 100 grams
   Dispense 75 g

   What is the percentage strength of miconazole in the final prescription?
   a. 6%
   b. 8%
   c. 10%
   d. 12%

7. Rx
   Miconazole 6 g
   Corn Starch
   Talc aa QSAD 100 grams
   Dispense 75 g

   How much talc do you need to fill the prescription?

   a. 47 mg
   b. 35.25 mg
   c. 100 mg
   d. 75 mg
   e. Cannot be calculated

8. What is the ratio strength of 100 mg of drug A is dissolved in 100 mL of hydroalcoholic solution?

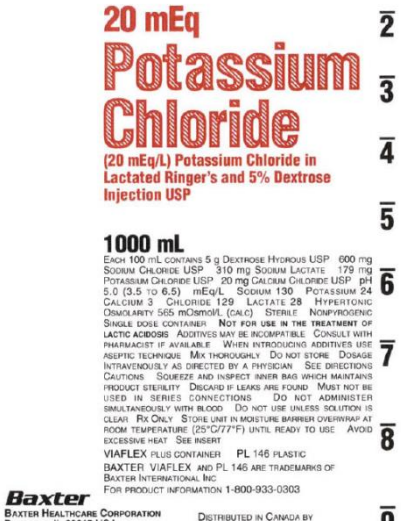
   a. 1:1
   b. 1/10
   c. 1/100
   d. 1/1000
   e. 1/10000

9. What is the concentration of solution containing 0.294g/ml of calcium chloride ($CaCl_2.2H_2O$)? (MW=147)
   a. 1mEq/ml
   b. 2mEq/ml
   c. 6mEq/ml
   d. 4mEq/ml

10. The following represents an RBC in hypertonic solution

11. How many mEq of Mg^{2+} ions are there in 5 mL of 20 mg% Magnesium chloride? (Atomic weight Mg =24, Cl=35.5)
    a. 10 mEq
    b. 21 mEq
    c. 33.6 mEq
    d. 50.4 mEq
    e. 420 mEq
    f. 672 mEq
    g. 3200 mEq

12. What is the concentration of KCl in mg/ ml of the solution? Mwt KCl 74.5.
    a. 1490 mg/mL
    b. 1.5 mg/mL
    c. 4470 mg/mL
    d. 15 mg/mL
    e. 0.75 mg/mL



13. The solution in the picture is
    a. Hypertonic
    b. Isotonic
    c. Hypotonic

14. Rx

    Miconazole 2 g
    Corn Starch
    Talc aa QS 100 gram
    M ft pulv DTD 200 g

    How much talc do you need to fill the prescription?
    a. 196 grams
    b. 198 grams
    c. 98 grams
    d. 100 grams

15. The following solutions are isotonic
    a. Normal Saline
    b. Dextrose 5% in water.
    c. A solution with dextrose 2.5% and NaCl 0.45%
    d. A and B
    e. All of the above

16. If both D5W and Normal Saline are isotonic, then one gram of dextrose is equivalent (in terms of isotonic effect) to ……..g of NaCl
    a. 5
    b. 0.18
    c. 0.2
    d. 1
    e. 1.1
    f. 2

17. One mole of NaCl with 90% dissociation will result in …….mole of particles

    a. 0.9
    b. 1.8
    c. 1.9

18. Rx E
    Procaine hydrochloride 1.5% 0.12
    Benzalkonium chloride 1:1000 0.13
    Boric acid Qs 0.52
    SWFI QSAD 50 mL
    How much Boric acid would you need to fill the prescription?

    a. 0.9 g
    b. 0.35 g
    c. 0.68 g
    d. 0.5 g
    e. 0.2 g

19. Rx E
    Procaine hydrochloride 1.5% 0.12
    Benzalkonium chloride 1:1000 0.13
    Boric acid Qs 0.52
    SWFI QSAD 50 mL
    How much Benzalkonium chloride would you need to fill the prescription?

    0.05 g
    0.1 g
    20. 0.5 g
    0.2 g
    0.01 g

21. Which of these Rx have the same capsule composition?

    1- Rx
    Salol 300 mg
    Camphor 150 mg
    Kaolin 900 mg
    M et div. ft. cap. (size 000) No. 3

    2- Rx
    Salol 300 mg
    Camphor 150 mg
    Kaolin 900 mg
    M et ft. cap. (size 000) No. 3

    3- Rx
    Salol 300 mg
    Camphor 150 mg
    Kaolin 900 mg
    M et ft. DTD cap. (size 000) No. 3

    1& 2
    1&3
    2&3
    1, 2, 3
    none

22. A pediatric patient is ordered 3 mEq/ kg/ day. If the patient is 17 lb, how many mL of a 23.4% NaCl would be needed?