Medication Quiz for Nursing Students

Student Name: 
University/College: 
Placement Area:

1. The physician orders 25 mg of Diphenhydramine (Benadryl) for Jasmin. An ampoule of Diphenhydramine contains 50 mg in a quantity of 1 ml. What dosage should the nurse administer?
   a. 0.5 ml 
   b. 2 ml 
   c. 0.4 ml 
   d. 1.5 ml

2. Faruk weighs 14 kg and is dehydrated. The Physician orders an intravenous bolus of normal saline 20 mL/kg over 60 minutes.
   A) What is the volume of fluids delivered by the end of the bolus?
   
   B) What will the flow rate be?

3. A patient is to receive 1 unit of PRBCs over 4 hours. The label on the bag states: 300 ml. What will the flow rate be?
   a. 60 ml/hr 
   b. 75 ml/hr 
   c. 100 ml/hr 
   d. 300 ml/hr

4. Simon is ordered Ibuprofen 450 mg q 6 hrs. Available: 300 mg tablets. How many tablets should the nurse administer?
   a. 2 tablets 
   b. 1.5 tablets 
   c. 1 tablet 
   d. 0.5 tablet

5. Metronidazole 0.5 gm PO is prescribed TID. It is available in 250 mg tablets. How many tablets will you administer with each dose?
6. Jennifer is ordered IV Cefazolin. She weighs 10 kg. The safe dose of Cefazolin is 50-100 mg/kg/day IV in equal doses q 8 hrs.

   a. What is the lowest daily amount she can safely receive?

   b. What is the highest daily amount she can safely receive?

   c. If a safe dosage of Cefazolin is 75 mg/kg/day in equal doses q8h, how many mg does the patient require for each dose?

   d. The instructions on the vial tell you to mix the 500 mg vial with 2 ml sterile water to obtain concentration of 225 mg/ml. How many mililiters you need to draw from the vial to administer the dose ordered in question c)?

   f) You need to administer the Cefazolin as an IV additive and the recommendation is to dilute it in normal saline to 5-20 mg/ml and run over 30 minutes. What is the minumum volume you can dilute it to?

   g) What is the rate you need to set your pump if you want the medication and the 4 cc normal saline flush to be infused over 30 minutes?

7. Calculate the dosage of a drug with recommended child’s dosage of 80 mg/m2 for a child with a BSA of 0.70 m2
8. Asha is ordered Acetaminophen for fever. The prescribed dose is 60 mg PO q4h. She weighs 7 kg.
   
   a. How much will she receive in one day?
   
   b. If the safe range for Acetaminophen is 10 -15 mg/kg/dose PO q4h – q6h, is this patient receiving an appropriate dose?
   
   c. The medication comes in a liquid form of 80 mg per 1ml and your order is based on 10mg/kg/dose. How many ml do you need to administer.

9. The physician’s order is as follows: Morphine Infusion 5 mg in 50 ml Normal Saline, to deliver 20 mcg/kg/hr, run infusion at 6 ml/hr. The patient weigh is 30 kg. You obtain Morphine 10 mg/ml injection ampoules from the narcotic cupboard.
   
   a. In your pediatric textbook the recommended dose for Morphine infusion is 0.01 – 0.04 mg/kg/hr. Is the dose you are giving appropriate?
   
   b. What is the volume of Morphine you must draw up to make up the above infusion?
      
      a. 2.5 ml
      b. 0.5 ml
      c. 2 ml
      d. 0.2 ml

10. The average dose range for Clindamycin is 20-30 mg/kg/day IV q 8 hrs. For a 45 kg child calculate:
    
    a. The recommended lower daily dosage
b. The recommended upper daily dosage

c. If the order is to give 220 mg q 8 hr, is this within the recommended dosage range?

d. If the order is to give 400 mg q 8 hr, is this within the safe dosage range? Show your calculations.

e. If the order is for 550 mg q 8 hr, is this safe to administer? Show your calculations

11. The physician orders to maintain urine output ≥ 1 cc/kg/hr. Javier weighs 20 kg and over the past 6 hours, his total urine output was 100 ml. Did Javier maintain the required amount as per the physician’s order?

12. The physician orders replacement fluid intravenously. What would 100% fluid maintenance be for Javier? He weighs 9 kg.

13. For a child weighing 37 kg, calculate his or her:

   a. 100% fluid maintenance:

   b. 80% fluid maintenance:

   c. Provide the formula you used for calculating 100% maintenance fluids.