

Medication Calculation Quiz #6

1. Ordered: 2500 mL to be infused for 24 hours. Available: an IV tubing with 15 gtt/mL.
At what rate will you set the IV device?
a) 52 gtt/min b) 35 gtt/min c) 26 gtt/min d) 104 gtt/min

2. Administer 50 mL of an antibiotic over 15 min. The IV set is calibrated at 15 gtt/mL. At how many gtt/min will you set the rate?
a) 100 gtt/min b) 60 gtt/min c) 25 gtt/min d) 50 gtt/min

3. Ordered: 50 mL piggyback to be infused for 30 min. The drop factor is 20. At how many gtt/min will you set the rate?
a) 17 gtt/min b) 100 gtt/min c) 20 gtt/min d) 33 gtt/min

4. Ordered: 300 mL of 0.9% NS over 6 hours. The IV set is microdrip. At how many gtt/min will you set the rate?
a) 60 gtt/min b) 50 gtt/min c) 30 gtt/min d) 45 gtt/min

5. Ordered: Dobutrex 150 mg in 150 mL Ringer's lactate (RL). The infusion device is set at 12 mL/hr. How long will it take to infuse?
a) 6 hr, 15 min b) 12 hr, 50 min c) 8 hr, 15 min d) 12 hr, 30 min

6. The IV is infusing at 30 gtt/min. The drop factor is 20 gtt/mL. The IV bag label reads 500 mL of 0.45% NS. How many hours will it take to infuse?
a) 5 hr, 50 min b) 3 hr, 36 min c) 4 hr, 40 min d) 5 hr, 30 min
7. Calculate the infusion time for an IV of 1000 mL of D5W infusing at 25 gtt/min with a drop factor of 10 gtt/mL.
a) 6 hr, 40 min b) 6 hr, 10 min c) 5 hr, 57 min d) 4 hr, 17 min
8. A pint of blood (500 mL) is hung at 1100 hours. The flow rate is 42 gtt/min. The drop factor on the administration set is 10 gtt/mL. When will the infusion be complete?
a) 1733 hours b) 1920 hours c) 1300 hours d) 1654 hours
9. Tridil is infusing at 30 mL/hr. The IV label reads "500 mL D₅W with Tridil 5 mcg/3mL." How many hours will it take to infuse?
a) 15 hrs, 10 min b) 18 hrs, 45 min c) 16 hrs, 40 min d) 12 hrs, 48 min
10. Ordered: Amicar 5 g in 250 mL over 2 hrs. At how many mL/hr should the infusion device be set?
a) 150 mL/hr b) 100 mL/hr c) 175 mL/hr d) 125 mL/hr