Drug Calculation Exam Practice (Adult) – Set 1

1) A 60 year old woman with angina is prescribed 135mg Verapamil t.d.s, stock strength available is 90mg. How many tablets will she need to take for each dose (express in decimal)?

2) 375mg of the drug Augmentin is prescribed t.d.s. What is the total amount of Augmentin in grams to be given in a day?

3) The drug Dopamine is prescribed at 2.5 micrograms/kg/day. Patient A weighs 65kg, what is the total amount of Dopamine that Patient A will need?

4) A female patient who weighs 65.5kg is prescribed the antibiotic Cidomycin 3mg/kg/day i.v. Calculate the dose in mg of Cidomycin?

5) A patient is prescribed Heparin 10,000 units s.c. Stock strength available is 4000 units in 0.2mL. What is the volume in mL that the patient will receive?

6) Patient Y is prescribed Furosemide 70mg i.v to be added to 40mL of Normal Saline 0.9%. Stock strength available is Furosemide 20mg/2mL. How many mL of Furosemide will you need to add to the bag of Normal Saline?

7) An acutely ill patient is prescribed Hartmann’s solution 1 litre via a volumetric pump to be infused at 150mL/hr. What is the volume of fluid in mL remaining after 2.5 hours?

8) Mrs Pat is prescribed 450mL of 5% Dextrose to run over 5.5 hours using a volumetric pump. How many mL/hr will you set the pump to one decimal place?

9) Mr Chow is prescribed 450mL of 5% Dextrose to run over 5 hours using an i.v infusion set that delivers 20 drops/mL. To the nearest whole number, how many drops/min will you need to set the infusion at?

10) A patient is prescribed Erythromycin 430mg in a solution of 100mL 0.9% Normal Saline to be infused over 1 hour. What is the concentration of Erythromycin on mg/mL?