# **Research Tool**

### **Section A**

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1 1011110	VIADIII	c Data:

- 1. Age:
- 2. Gender:
  - a) Male
  - b) Female
- 3. Years of experience:
- 4. Qualification:
- 5. Designation:
- 6. When calculating drug doses, is it necessary to double-check your own calculations?

## **Section B**

#### Conversion of metric unit

- 1. Convert 5mg into microgram:
  - a) 2000 mcg
  - b) 500 mcg
  - c) 5000 mcg
  - d) 5500 mcg
- 2. 8 mL of a drug solution contains how many microliters?
  - a) 8 microlitre
  - b) 80 microlitre
  - c) 800 microlitre
  - d) 8000 microlitre
- 3. 1 teaspoon is how much ml?
  - a) 10 ml
  - b) 15 ml
  - c) 5 ml
  - d) 30 ml
- 4. loz is how much ml?
  - a) 10 ml
  - b) 15 ml
  - c) 5 ml
  - d) 30 ml
- 5. Convert 1 tablespoon into ml
  - a) 10 ml
  - b) 15 ml
  - c) 5 ml

d) 30 ml

### **Section C**

Dilution and strengths of solutions.

- 1. How much sodium (in grams) is there in 500 ml of solution of sodium chloride 0.9% of solution:
  - a) 2.5 gram
  - b) 9 gram
  - c) 4.5 gram
  - d) 1.5 gram
- 2. 10 ml ampoule of adrenaline 1 in 1000, how much adrenaline in milligrams does the ampoule contains:
  - a) 10 mg
  - b) 30 mg
  - c) 40 mg
  - d) 50 mg
- 3. A 80kg patient is planned for suture. Maximum dose of lignocaine administered is 3mg/kg what is the maximum safe volume in ml of 2% lignocaine solution that can be given:
  - a) 14 ml
  - b) 12 ml
  - c) 10 ml
  - d) 8 ml
- 4. Sodium hypochlorite solution is available as 10% solution in 1 litre. How much water can be added to make its concentration 2%:
  - a) 4000 ml
  - b) 3000 ml
  - c) 2000 ml
  - d) 1000 ml
- 5. Atropine is available as 1mg in 10ml. How much mg/ml it forms?
  - a) 0.01 mg/ml
  - b) 0.1 mg/ml
  - c) 1 mg/ml
  - d) 10 mg/ml
- 6. 1% of dopexamine is available in 5ml ampoule. How many milligrams of dopexamine does that ampoule contains?
  - a) 20 mg
  - b) 30 mg
  - c) 40 mg
  - d) 50 mg

## **Section D**

Drug dose calculation for measuring oral and intravenous medication.

- 1. A 45 kg female client arrives in emergency department with symptomatic bradycardia. Drug of choice is Atropine 20 microgram/kg which is given intravenously. How much atropine is required if 10ml contains 1 mg?
  - a) 3 ml
  - b) 6 ml
  - c) 9 ml
  - d) 12 ml
- 2. 375 mg of cefuroxime is prescribed however the drug is available in 750 mg dose. If diluted in 10 ml sterile water how much can be administered?
  - a) 5 ml
  - b) 7 ml
  - c) 6 ml
  - d) 8 ml
- 3. 130 mg of Paracetamol syrup is to be administered to a paediatric patient. The available dose is 250 mg per 5 ml. How much ml will you administer?
  - a) 1.6 ml
  - b) 2.6 ml
  - c) 3.6 ml
  - d) 4.6 ml
- 4. 125 microgram digoxin is prescribed orally. Available is digoxin elixir 50 microgram/ml with a pipette dropper. How many ml is required for this patient?
  - a) 1 ml
  - b) 1.5 ml
  - c) 2 ml
  - d) 2.5 ml
- 5. 1 gram of erythromycin orally is ordered. Available suspension is 250 mg in 5 ml. How many ml will you administer?
  - a) 20 ml
  - b) 30 ml
  - c) 40 ml
  - d) 50 ml
- 6. Gentamycin injection is available in 40mg/ml in 2ml ampoule. Prescribed dose is 4mg/kg for 60 kg patient. How many ampoules will be required?
  - a) 6 ampoules
  - b) 8 ampoules
  - c) 10 ampoules
  - d) 12 ampoules