

## ADDITIONAL CALCULATION (OPEN BOOK) QUESTIONS

- 1 A patient is prescribed a reducing dose of oral prednisolone as follows: T F  
Day 1 – 10 mg, Day 2 – 8 mg, Day 3 – 6 mg, Day 4 – 4 mg, Day 5 – 3 mg, Day 6 – 2 mg, Day 7 – 1 mg.  
Prednisolone is supplied as tablets of 5 mg and tablets of 1 mg. Prednisolone tablets cannot be split, therefore, the patient needs to take a number of whole tablets. It would be appropriate for you to dispense four 5 mg tablets and twelve 1 mg tablets for this patient.
- 2 2.5 mL of concentrated chloroform water is needed to make up 100 mL of double strength chloroform water from the standard (standard is one part concentrate plus 39 parts water). T F
- 3 A 1 year old child weighing 11 kg requires Augmentin Duo® suspension '400/57'. If it is not a severe infection they require 3.3 mL of this suspension as a total daily dose. T F
- 4 If an adult female patient with a body-surface area of  $1.6 \text{ m}^2$  is prescribed etoposide  $200 \text{ mg/m}^2$  daily for 5 days, the total dose administered will be 1.6 g. T F
- 5 A patient who weighs 80 kg is prescribed dopamine  $5 \mu\text{g/kg/min}$  to be given over 4 hours. If each ampoule of drug contains  $40 \text{ mg/5mL}$  the volume of dopamine required to prepare the infusion is 12 mL T F

- 6 175 mmol of sodium ions will be received by a patient who has enough Vamin 9 Glucose® to provide 5950 kJ. T F
- 7 In order to make 350 g of a paste which contains 15% w/w calamine, 5.25 g of calamine is required. T F
- 8 A child (body weight = 32 kg) who has been on dialysis has developed anaemia and is prescribed 450 nanograms/kg darbepoetin alfa once weekly. The drug is available as a 0.4 mL ampoule of 25 microgram/mL solution for injection or 0.375 mL ampoule of 40 microgram/mL solution for injection. In order to administer the correct dose 0.36 mL of the 40 microgram/mL solution should be used. T F
- 9 The initial dose of sodium nitroprusside for a 25 kg child is 500 nanograms/kg/minute for 30 minutes. The drug has been reconstituted and diluted with glucose 5% to provide a concentration of 50 micrograms/mL. The flow rate for infusion should be 0.025 mL/min. T F
- 10 A 5-year-old patient weighing 19 kg has been prescribed pentazocine by sub-cutaneous injection. This patient can receive 0.7 mL of the 30 mg/mL injection every 4 hours and thus is within the BNF recommended limits. T F