

Practice Questions for Registration Assessments 2014: Issued November 2013
Answers and Guidance

Question	Answer	Guidance
1 Open Book	C	See BNF individual product monographs.
2 Open Book	B	See BNF Section 14.4 and Appendix 1
3(Calc) Open Book	C	$\text{Body surface area (m}^2\text{)} = \sqrt{\frac{36 \text{ (kg)} \times 144 \text{ (cm)}}{3600}}$ $= 1.2 \text{ m}^2$ <p>Dose = 300 mg/m² ∴ dose = 300 x 1.2 = 360 mg</p>
4(Calc) Open Book	B	<p>Child's weight is 30 kg Dose is 40 micrograms/kg = 40 x 30 = 1200 micrograms</p> <p>1200 micrograms in 30 mL over 5 minutes In 1 ml there are 1200/30 micrograms = 40 micrograms</p> <p>In 3 minutes 30/5 x 3 = 18 mL will be infused Each mL contains 40 micrograms ∴ 40 x 18 micrograms have been infused = 720 micrograms = 0.72 mg</p>
5(Calc) Open Book	C	<p>Dose is 12 mg/kg/day = 12 x 20 = 240 mg per day</p> <p>For 30 days treatment 240 x 30 = 7200 mg</p> <p>Sodium valproate oral solution contains 200 mg/5 mL = 40 mg/mL Volume required for 30 days treatment is 7200/40 = 180 mL</p>
6 Closed Book	B	<p>After 1 half-life 50% will remain, after 2 half-lives 25% will remain ∴ 75% has been eliminated.</p> <p>2 half lives = 2 x 2 = 4 hours</p>
7 Closed Book	E	See BNF Appendix 1
8 Closed Book	C	See BNF section 6.1.1
9 Closed Book	D	See BNF section 6.1.2
10 Closed Book	E	See BNF section 6.1.2