

Question Number	Answer	Additional Guidance	Mark
7(a)	<ol style="list-style-type: none"> 1. Withering did not have {animal / pre-clinical} trials ; 2. Withering had a smaller sample size ; 3. Withering did not test on healthy people ; 4. Withering did not use a placebo ; 5. Withering did not do a double-blind trial ; 6. Withering tested mixtures of chemicals / eq ; 	<p>ACCEPT throughout the converse for modern testing protocols</p> <p>6.ACCEPT Withering used plant extracts rather than the active ingredients</p>	(3)

Question Number	Answer	Additional Guidance	Mark
7(b)(i)	<ol style="list-style-type: none"> 1. patients given a range of doses / concentrations / eq ; 2. lowest effective concentration selected / eq ; 	<p>1. answers must be in context of patients not just people or healthy volunteers</p>	(2)

Question Number	Answer	Additional Guidance	Mark
7(b)(ii)	<p>digoxin has an {OH / hydroxyl} group that digitoxin does not have / eq ;</p>	<p>ACCEPT digoxin has two OH groups but digitoxin only has one OH group</p> <p>ACCEPT digoxin has an extra OH group</p> <p>IGNORE digoxin has more OH groups</p> <p>ACCEPT OH unqualified, but DO NOT CREDIT ref to hydroxide molecule / hydroxide ion / OH bond /OH atom / OH molecule</p>	(1)

Question Number	Answer	Additional Guidance	Mark
7(b)(iii)	<ol style="list-style-type: none"> 1. it will depend on size of patient / eq ; 2. different people have different {metabolic rates /metabolism / eq} ; 3. absorption of drug will depend on food that has been eaten recently / eq ; 4. may be {interactions with / effects of /eq} other drugs ; 	<ol style="list-style-type: none"> 1. ACCEPT age / gender of patient 2. ACCEPT genetic differences / different genotypes 	(2)