## GCSE → A Level transition test Mark scheme

Question	Answer	Marks	Guidance
1.1	molecules made from a large number of monomers joined together	1	
1.2	D	1	
1.3	hydrolysis (reaction)	1	
2.1	precise — measurements are close to a mean value reproducible — another person gets the same results anomaly — value in a set of results is ruled out as erroneous accurate — result is close to true vale repeatable — original experimenter gets the same results if they do it again	2	2 marks for all correct 1 mark for two or three correct
2.2	В	1	
2.3	D	1	
3.1	D	1	
3.2	А	1	
4.1	glycosidic (bond)	1	



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4.2	mix with sodium hydroxide solution and copper(II) sulfate solution purple colour forms if protein present	1 1	Biuret test is insufficient
5.1	prefix         index           micro         10 <sup>-6</sup> micro         10 <sup>-3</sup> centi         10 <sup>-2</sup> nano         10 <sup>-9</sup> kilo         10 <sup>3</sup>	2	2 marks for all correct 1 mark for three or four correct
5.2	A	1	
6.1	lowers the activation energy	1	
6.2	Any three from: temperature pH enzyme concentration substrate concentration inhibitor concentration	3	
6.4	competitive inhibitors occupy the active site of the enzyme non-competitive inhibitors change the shape of the active site by another location.	pinding in 2	



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7.1	<b>A:</b> 56 cm <sup>3</sup>	1	Accept 55 cm <sup>3</sup>
	± 0.5 cm <sup>3</sup>	1	
	<b>B</b> : 96 cm <sup>3</sup>	1	
	± 1 cm <sup>3</sup>	1	
	<b>C</b> : 47 mm	1	
	± 1 mm	1	
7.2	<b>A</b> : 0.9% (0.89%)	1	
	<b>B</b> : 1.0% (1.04%)	1	
	<b>C</b> : 2.1% (2.13%)	1	