

Question Number	Answer	Mark
3 (a) (i)	<p>Idea of removing genetic variation e.g. same genotype</p> <p>OR</p> <p>fibres {grown in same conditions / same composition / same age}</p> <p>OR</p> <p>to give {comparison/ results} that are valid ;</p>	(1)

Question Number	Answer	Mark
3 (a) (ii)	<ol style="list-style-type: none"> 1. (fibre) length / eq ; 2. (fibre) diameter / width/ thickness / circumference / SA of cross section / eq ; 3. (fibre) mass / weight ; 4. age (fibre) / collected at same time / eq ; 5. idea that came from same region of the plant / eq ; 	(2)

Question Number	Answer	Mark
3 (a) (iii)	the idea that temperature is a variable e.g. results reliable, same effect on structure of fibre;	(1)

Question Number	Answer	Mark
3 (b)	idea that protect eyes from fibre when it breaks ; NOT just to protect eyes – must state what they are protected from.	(1)

Question Number	Answer	Mark
3 (c) (i)	<ol style="list-style-type: none"> 1. idea that (mean) force needed to break wet fibres was greater (than dry fibres) / eq ; 2. correct manipulation of the mean data for example 1100 au difference / 40% (39.8%) more force needed to break wet fibres compared to dry fibres/ 28.5% less to break dry fibres compared with wet fibres / 1.4 times more force required to break wet fibres ; 	(2)

Question	Answer	Mark
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Number		
3 (c) (ii)	1. wet (fibres) / eq ; 2. wet fibre data has a wide range / eq ; 3. correct manipulation of data e.g. 1100 (au) for wet AND 300 (au) for dry OR wet range is 800 (au) more than dry ; 4. wet {sample 5 / 3100} may be {anomalous / outlier} ;	(3)

Question Number	Answer	Mark
3 (d) (i)	Idea of lower values for 3 AND 4 compared to 1 AND 2 ;	(1)

Question Number	Answer	Mark
3 (d) (ii)	idea that sample 1 (without a knot) was the same as sample 5 ;	(1)