

Question number	Answer	Notes	Marks
5 (a)	A (accuracy of the measurement);  B is incorrect because removing a zero error does not allow the measurement to be made to more decimal places C is incorrect because removing a zero error does not allow the repeatability to be assessed D is incorrect because removing a zero error does nothing to improve the control of other variables that may affect the measurement of mass		1
(b)	C (reliability of the measurement);  A is incorrect because repeating a measurement does not make the measurement closer to the true value B is incorrect because repeating a measurement does not allow the measurement to be made to more decimal places D is incorrect because repeating a measurement does nothing to improve the control of other variables that may affect the measurement of mass		1
(c) (i)	19.34 reading circled;		1
(ii)	anomalous reading excluded from calculation; mean mass evaluated;  final answer expressed to 2 decimal places;  e.g. (mean =) $[18.96 + 19.01 + 19.05 + 18.98 + 19.04] \div 5$ (mean =) 19.008 (mean mass =) 19.01 (g)	allow ecf from (i) allow ecf if anomalous reading included allow ecf if anomalous reading included      if anomalous reading included, allow final 2 marking points only 19.06 = 2 marks 19.063... = 1 mark	3
(iii)	volume;		1

Total for Question 5 = 7 marks