Question number	Answer	Notes	Marks
1 (a)	M1 (X) - (stirring/glass/ plastic) rod	Accept stirrer Reject metal	2
	M2 (Y) - Bunsen (burner)		
(b) (i)	C (solvent)		1
(ii	B (solution)		1
(c) (i)	2		1
(ii	3		1
(d)	evaporated / went into the air	accept boils accept turns into vapour	1

Question number			Answer	Notes	Marks
1	а	i	B (2)		1
	b		FR AND FG FR and FG/they/colourings/dyes/spots/OWTTE AND line up/match/correspond with/travel same distance(s) as / have same <i>R</i> _f values as AND SR and SG/safe colourings/red and green colourings	Choice can be indicated by ticks or other marks or Yes M2 DEP on M1 correct or missing Ignore references to FB unless incorrect Ignore references to FR and FG containing/being the same as SR and SG	1

(Total for Question 1 = 3 marks)

Question number	Answer	Accept	Reject	Marks
1 (a)	filtration	filtering		1
(b)	(simple) distillation	distilling	fractional distillation	1
(C)	dissolving			1
(d)	chromatography			1
(e)	fractional distillation	fractionally distil(ling)	just distillation / simple distillation	1
			Total	5

Question number	Answer	Notes	Marks
2 (a)	B A D C		1 1 1
(b)	Mixture Compound Mixture		1 1 1 7
		Total	/

Question number	Answer	Notes	Marks
1 (a)	QuantityUnitAbalanc emassM1BclockM2 timesCgas syringeM3 volumeM4 	 Accept other correct metric units, such as M1 kg / mg Ignore imperial units such as lb / oz Reject units impossible in a laboratory, such as t and m³ M4 dm³ / ml / l M6 mm / m Do not penalise use of capital letters, such as KG / CM Accept word equivalents, such as gram(s), second(s), centimetre(s) M5 alternatives - accept distance / height / width / depth / diameter Do not penalise references to specific examples, such as 	6
(b)	C (ruler)	volume of gas / length of line	1
		Total for Question 1	7

Question number	Answer	Accept	Reject	Marks
2 (a) (i)	D	d		1
(ii)	А	а		1
(b)	M1 - B	b		1
	 M2 - the spots do not line up (with any of the blue, red or yellow spots) M2 dependant on M1 	the colours do not match (with any one of blue, red or yellow) the spots are not the same (as those for blue, red or yellow)	contains other colours	1
			Total	4