

Question number	Answer	Accept	Reject	Marks
1 (a) (i)	unsaturated			1
(ii)	<b>M1</b> - (unsaturated) colourless <b>IGNORE</b> clear/transparent/looks like water  <b>M2</b> - (saturated) orange	no colour	discoloured	1
(iii)	addition	yellow / brown and any combination	any other colour either on its own or in combination with an accepted colour	1
(b) (i)	A			1
(ii)	C <b>and</b> D	C , D	C <u>or</u> D	1
(iii)	each colouring has a different mixture/combination/patterns of dyes  IGNORE references to different heights / distances and solubilities.	Spots / dots for dyes		1
			<b>Total</b>	<b>7</b>

Question number	Expected Answer	Accept	Reject	Marks
2 (a)	bar drawn at height of 32 bar drawn at height of 8 bar drawn at height of 62-64	2 marks for all 3 1 mark for any 2  horizontal lines at correct heights vertical lines ending at correct heights		2
(b)	<b>M1</b> - capric <u>AND</u> palmitic solid  <b>M2</b> - formic liquid	S  I	any other state symbols	1  1
			<b>Total</b>	<b>4</b>