Question	Acceptable Answers	Reject	Mark
Number			
1(a)	London (forces) / van der Waals (forces) /	Dipole-dipole	1
	temporary dipole-induced dipole	Permanent dipole-	
	(attractions) / dispersion forces /	dipole	
	instantaneous dipole-dipole	Just abbreviations,	
		eg ID-ID, VdW	

Question Number	Acceptable Answers	Reject	Mark
1 (b)	18 /eighteen		1

Question Number	Acceptable Answers	Reject	Mark
1(c)	(Permanent) dipole-dipole attractions (also) present	Hydrogen bonds Reference to CH ₃ F having more electrons than F ₂	1

Question	Acceptable Answers	Reject	Mark
Number			
1 (d)	Hydrogen bonds (also) present (1)		2
	Which are stronger / which require more energy to break than dipole-dipole / London forces / van der Waals' forces / Or strongest intermolecular force (1)		

Question Number	Acceptable Answers	Reject	Mark
1(e)	HCI does not have hydrogen bonds (between molecules)	Just 'chlorine does not have hydrogen bonds'	US035563
	IGNORE references to electronegativity		