4	(a)	Compare the molecular motion of a liquid with		
		(i)	a solid,	
			[2]	
		(ii)	a gas.	
			[1]	
	(b)	(i)	A ductile material in the form of a wire is stretched up to its breaking point. On Fig. 4.1, sketch the variation with extension $x$ of the stretching force $F$ .	
			F ductile material	
			0	
			0	
		(ii)	Fig. 4.1 $[1]$ On Fig. 4.2, sketch the variation with extension $x$ of the stretching force $F$ for a brittle material up to its breaking point.	
			F brittle material	
			Fig. 4.2 [1]	
	(c)	Des	scribe a similarity and a difference between ductile and brittle materials.	
		sim	ilarity:	
		diffe	erence:	