Question number	Answer	Notes	Marks
10 (a)	ANY THREE of particles in constant motion / particles have kinetic energy; in random directions; colliding with walls; causing a force on the walls; Pressure = force /area;	Answers need to refer to particles / molecules rather than 'the gas is'  ALLOW 'Hitting the walls' / 'bouncing off the walls' ALLOW 'push' / 'pushing'	3
(b) (i) (ii)	(pressure would) increase; (higher temp) increases (average) speed / kinetic energy of particles; So collide with walls more often / at higher speed;	IGNORE references to 'heating the particles' ALLOW 'hit harder'	1 1 1
(c)	Use of $p_1V_1 = p_2V_2$ (equation given) /substitution; 2000 (cm <sup>3</sup> );	2000 alone scores 2	2
		Total	8