Number	Answer							Mark
*18	This question assesses a student's ability to show a coherent and logically structured answer with linkages and fully-sustained reasoning.							
	Marks are awarded for indicative content and for how the answer is structured and shows lines of reasoning.							
	The following table shows how the marks should be awarded for structure and lines of reasoning.							
	Number of marks awarded for structure of answer and sustained line of reasoning							
	Answer shows a coherent and logical structure with linkages and fully sustained lines of reasoning						2	
	Answer is partially structured with some linkages and lines of reasoning						1	
	Answer has no linkages between points and is unstructured						0	
	Total marks awarded is the sum of marks for indicative content and the marks for structure and lines of reasoning							
	IC po		IC mark	Max linkag mark	e	Max final mark		
	6		4	2		6		
	5		3	2		5 4	-	
	3		2	1		3	-	
	2		2	0		2	1	
	1		1	0		1		
			0	0		0]	
	Indicative content							
	IC1 The internal energy of the wax decreases during cooling Or The internal energy of the wax decreases as time passes							
	IC2 The internal energy of the wax is the sum of potential energy and kinetic energy of the molecules							
	IC3 As the <u>temperature</u> of the wax decreases, the (molecular) kinetic energy decreases							
	IC4 Between times X and Y the (liquid wax is solidifying and the molecular) potential energy decreases							
	IC5 Between times X and Y the <u>temperature</u> is constant and so there is no change in (molecular) kinetic energy							6
		(mole	cular) kineti	c energy				

6

Total for question 18