2012 A/L Structured Essay Question No (02)

of	u are asked to perform an experiment to verify that the value of the specific latent heat of fusion ice is 3.3×10^5 J kg ⁻¹ using the method of mixtures.
	me of the items given to you are listed below.
	 A copper calorimeter A beaker containing water heated to 45 °C
	(3) A block of ice
(0)) Prepare a list of other items needed to perform this experiment.
(4)	2 Sector Distribution of the sector of th
(b)) When performing this experiment, what steps would you take to minimize the heat absorbed from the surroundings?
(c)) If the room temperature is 30 °C and the dew point of the atmosphere is 25 °C what values would you suggest for
	(i) initial temperature of water :
	(ii) minimum temperature of water :
	Give reasons.
(d)	List all the experimental measurements that you would take before adding ice.
(e)	What procedures would you follow when preparing ice, adding it, and mixing with water?
	Preparing :
	Adding :
	Mixing :
(f)	Write down the rest of the experimental measurements that you would take after adding ice.
(g)	In this experiment the measurements that are used to determine the mass of ice have to be taken more carefully and accurately. Explain why.