2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Chemistry

Section I (continued)

Part B - 60 marks **Attempt Questions 16–27** Allow about 1 hour and 45 minutes for this part

Answer the questions in the spaces provided.

Show all relevant working in questions involving calculations.

Marks

Question 16 (6 marks)

You have carried out a first-hand investigation to compare the reactivity of an alkene

with its corresponding alkane.		
(a)	State the name of the alkene.	1
	cyclohereene	
(b)	Outline a procedure to compare the reactivity of the corresponding alkane.	Chibacc
	mix bromine solution with this	2,2 25,6 %
	its corresponding alkane in the presence of	
	uv light and with out the uv light, using a test tube.	
	The result shows that the product deco	lorised in both condition for
	the alkene but with alkane the decolor present	rised results is occurs only with
(c)	escribe the results obtained from this first-hand investigation and include 3 levant chemical equations.	
		cyclo hexene
	uv light decolorised	decolorised
	without unlight no effects	decolorised.
	The result shows that the product decolorised in both condition for	
	the alkene but there is no ettects to the alkane without the present	
	of uvlight. The chemical reaction of cyclohexane with Brz	
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