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.

Mark	
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Question 16 (6 marks)

	n have carried out a first-hand investigation to compare the reactivity of an alkene it its corresponding alkane.	
(a)	State the name of the alkene. Propere	1
(b)	Outline a procedure to compare the reactivity of this alkene with its corresponding alkane.	2
	By adding Bromine water a distinct	
	result occurs in the alkene, because	
	of the double bond the Bronine is	
	immediately absorbed hence the brown brown brown water furns clear, whilist it remains be	ni nwori
(c)	Describe the results obtained from this first-hand investigation and include	k flkane as it
	relevant chemical equations. Propere and We adoled Previous to Bromine water	has no Jouble
	C3H6+Br.H2O->C3H6Br	bund
	We added Austerna and Bromine water	K
	C3H8+Br. H2O UV Light > C3H7Br	cead
	No result was advised originally wit	~
	Rembase So UV light was used as a	
	Propane catalyst however	
	the reaction dia	1 not
	-9- proceed st 50 th	· Speed

as propere