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.

State the name of the alkene. 1 (a) Hexene Outline a procedure to compare the reactivity of this alkene with its 2 corresponding alkane. e Take & two alkanes: Cyclohexene and hexane in two backers
in ake two alkanes: Cyclohexene and homene in two beakers. · Add bromine to one set of beaters and iodine in the other Set of beakers 3 Describe the results obtained from this first-hand investigation and include (c) relevant chemical equations.

In the case of the allcanes, no change in colour of was noted. However in the case of alkenes (cyclohexene and hexene) the solution