

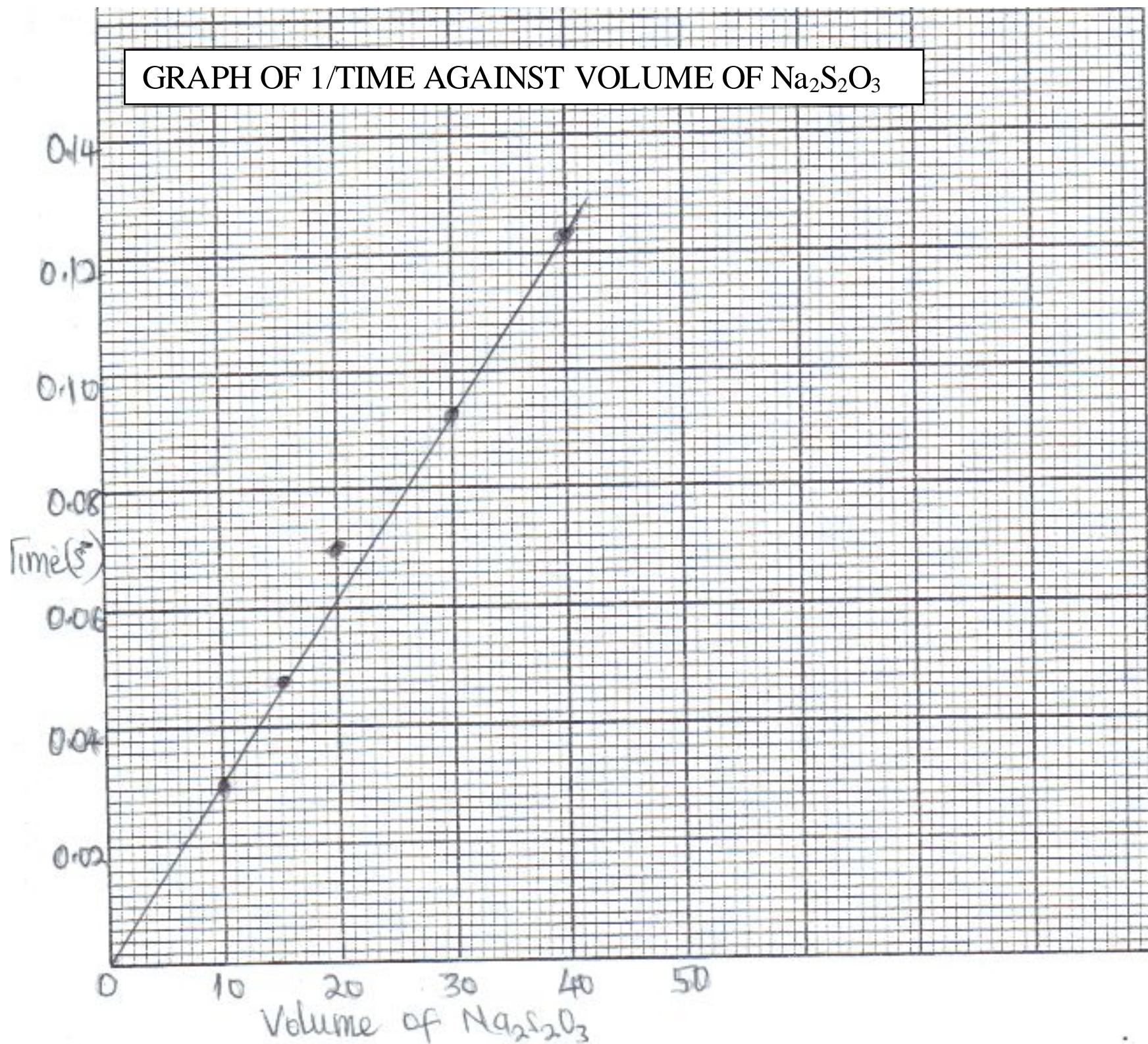
MARKING SCHEME

CHEMISTRY PAPER 11

SECTION A (20 marks)

1. a. -To vary the concentration of sodium thiosulphate or
(1 mark)
-To maintain the volume of sodium thiosulphate at 40 cm³

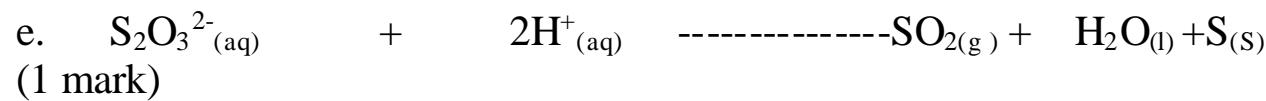
b.



c. 16.5 sodium thiosulphate and 23.5 of water
(1 mark)

d. -effect of concentration

-conclusion is that the higher the concentration, the faster the reaction
(2 marks)



2.a. is a solution of known concentration -----1 mark

b. $m = M \times V \times R \times F \times M$
 $= 0.2 \times 0.25 \times 142$

-----2 marks
 $= 7.1 \text{ g}$

-Calculate the required mass of Na_2SO_4 as above

-Weigh 7.1g of Na_2SO_4 using a balanced

-Dissolve the mass in little water in a beaker

-Transfer the content in a 250cm^3 volumetric flask
each step) (1 mark)

-Rinse the beaker with distilled water ,then transfer content into the flask

-Add more distilled water to the flask up to the mark

-Put a stopper and shake to mix completely

NOTE:

-For questions 3 and 4, subject teacher will do the experiment before the actual day of examinations and marking key