

**PERATURAN PEMARKAHAN
UJIAN AMALI SAINS - KIMIA
TINGKATAN 5**

Soalan	Peraturan Pemarkahan	Skor
1 (a)	Able to record all readings accurately to one decimal point with correct unit. Answer : Set I : [X saat/second] Set II : [Y saat/second]	1 1

Question	Mark Scheme	Score
1 (b) (i)	Able to state the colour of precipitate. Answer : Kuning / Yellow	1

Question	Mark Scheme	Score
1 (b) (ii)	Able to state the inference accordingly. Sample answer : 1. Sulfur / Sulphur	1

Question	Mark Scheme	Score
2 (c)	Able to state the three variables correctly. Sample answer : (i) Pemboleh ubah dimanipulasi : bilangan mol ion tiosulfat/natrium sulfat// Isipadu dan kepekatan larutan natrium tiosulfat (ii) Pemboleh ubah bergerak balas : Masa untuk tanda X tidak kelihatan// kadar tindak balas. (iii) Pemboleh ubah dimalarkan : Isipadu dan kepekatan asid sulfurik (i) <i>Manipulated variable: no. of mole thiosulphate ion/sodium thiosulphate// volume and concentration of sodium thiosulphate</i> (ii) <i>Responding variable: Time to X mark disappeared//Rate of reaction.</i> (iii) <i>Constant variable: Volume and concentration of sulphuric acid</i>	1 1 1

Question	Mark Scheme	Score
1 (d)	Able to state the relationship between the manipulated variable and responding variable correctly. Sample answer : Semakin tinggi kepekatan natrium tiosulfat yang digunakan, semakin singkat masa yang diambil untuk tanda X tidak kelihatan <i>The higher concentration of sodium thiosulphate, the shorter time taken for X mark disappeared.</i>	2

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Question	Mark Scheme	Score
1 (e)	<p>Able to write balanced chemical equation in Set I</p> <p>Answer :</p> $\text{Na}_2\text{S}_2\text{O}_3 + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{SO}_2 + \text{S} + \text{H}_2\text{O}$ <p>Correct reactant and product</p> <p><i>Balanced chemical equation</i></p>	<p>1</p> <p>1</p>

Question	Mark Scheme	Score
1 (f)	<p>Able to calculate concentration of diluted sodium thiosulphate.</p> <p>Sample answer :</p> $M_1V_1 = M_2V_2$ $(0.5) (2) = (M_2) (10)$ $M_2 = 0.1 \text{ mol dm}^{-3}$	<p>1</p> <p>1</p>

Question	Mark Scheme	Score
1 (g)	<p>Able to compare the rate of reaction between experiment Set I and Set II and give explanation correctly.</p> <p>Sample answer :</p> <p>Kadar tindak balas Set I lebih tinggi berbanding Set II Kepekatan larutan natrium tiosulfat set II lebih tinggi daripada kepekatan larutan natrium tiosulfat set II.</p> <p><i>The rate of reaction of Set I was higher than that of Set II.</i> <i>The concentration of sodium thiosulphate of set I is higher than set II</i></p>	<p>1</p> <p>1</p>

PERATURAN PEMARKAHAN TAMAT
END OF MARKING SCHEME