

| Question |   | Expected Answers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Marks                      | Additional Guidance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2        | a | $\text{BrO}_3^- + 5\text{Br}^- + 6\text{H}^+ \longrightarrow 3\text{Br}_2 + 3\text{H}_2\text{O}$ ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                          | ALLOW multiples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|          | b | <p>graph:</p> <p>Straight/diagonal line through origin OR 0,0<br/>AND<br/>1st order with respect to <math>\text{BrO}_3^-</math> ✓</p> <p>initial rates data:</p> <p>When <math>[\text{Br}^-]</math> is doubled, rate <math>\times 2</math> ✓<br/>1st order with respect to <math>\text{Br}^-</math> ✓</p> <p>When <math>[\text{H}^+] \times 2</math>, rate <math>\times 4</math> (<math>2^2</math>) ✓<br/>2nd order with respect to <math>\text{H}^+</math> ✓</p> <p>Rate equation<br/>rate = <math>k [\text{BrO}_3^-] [\text{Br}^-] [\text{H}^+]^2</math> ✓</p> | <p>1</p> <p>4</p> <p>1</p> | <p><b>ANNOTATIONS MUST BE USED</b><br/>Both explanation and 1st order required for mark</p> <p><b>DO NOT ALLOW</b> diagonal line OR straight line OR constant gradient on its own (no mention of origin OR 0,0)</p> <p>ALLOW 'As <math>\text{BrO}_3^-</math> doubles, rate doubles' AND 1st order<br/>ALLOW rate is proportional to concentration AND 1st order</p> <p>Mark order and explanation independently<br/>Mark order first, then explanation</p> <p>ALLOW ECF from candidate's orders above</p> |

# Ocr F325 June 2010 Question Paper

**Michael Rajnik**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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## Embracing the Track of Term: An Mental Symphony within **Ocr F325 June 2010 Question Paper**

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