

## 55 ${ }^{\text {th }}$ INTERNATIONAL

## CHEMISTRY OLYMPIAD

## 2023

## UK Round One

## STUDENT ANSWER BOOKLET

> In order to print your certificate, we need to store your name, school, and mark in a database: these details are only viewable by your school and the RSC Chemistry Olympiad Working Group.

Your participation in the competition indicates that you are happy for us to do this.

## Please PRINT details clearly:

Name $\qquad$
Nationality
Date of birth $\qquad$
School Year (e.g., Year 12, Scottish Higher) $\qquad$
Date paper taken
School use:
Centre number

| Question | 1 | 2 | 3 | 4 | 5 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Marks <br> Available | 7 | 20 | 18 | 21 | 20 | 86 |
| Marks <br> Scored |  |  |  |  |  |  |



(g) (h) $_{\text {(i) }}^{\text {(h) }}$ (ii)
(iv)

| 3. | This question is about amino acid complexes |  |  | Mark |
| :---: | :---: | :---: | :---: | :---: |
| (a) | (i) | (ii) |  |  |
| (b) | (i) |  |  |  |
|  | (ii) |  |  |  |
| (c) |  |  |  |  |
|  |  |  |  |  |

(d)

Draw each stereoisomer only once. If the stereoisomer is chiral, you should only draw one enantiomer. Not all boxes may be required.

|  |  |
| :---: | :---: |
|  |  |

(e)

Draw each stereoisomer only once. If the stereoisomer is chiral, you should only draw one enantiomer. Not all boxes may be required.

|  | $\stackrel{\sim}{*} \times$ |
| :---: | :---: |
| $\stackrel{\sim}{*} \boldsymbol{\sim}$ |  |

(f)





(i)

